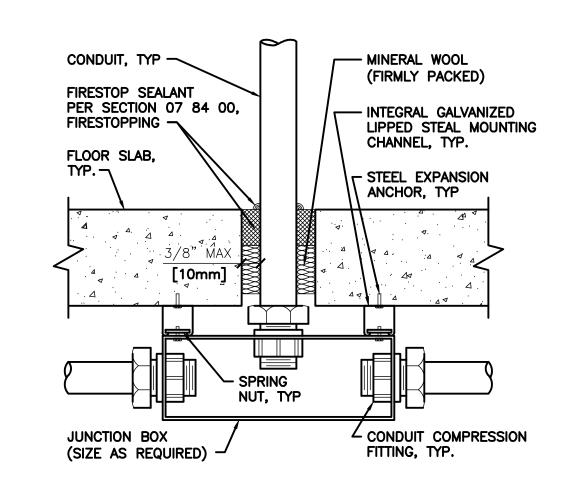


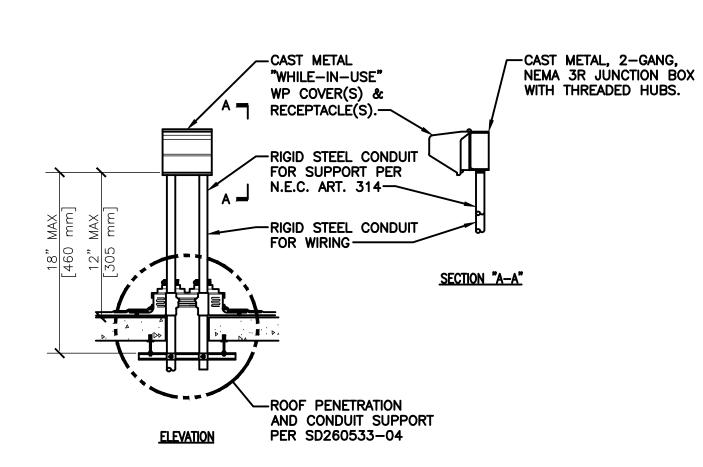
ELECTRONIC SENSOR WIRING DIAGRAM

1. PROVIDE DOUBLE GANG BACKBOXES AND PLASTER RINGS AT LOCATIONS COORDINATED WITH PLUMBING CONTRACTOR (P.C.)

2. E.C. SHALL FIELD VERIFY EXACT SENSOR LOCATION WITH P.C. PRIOR TO ROUGH-IN.



FLOOR SLAB PENETRATION DETAIL



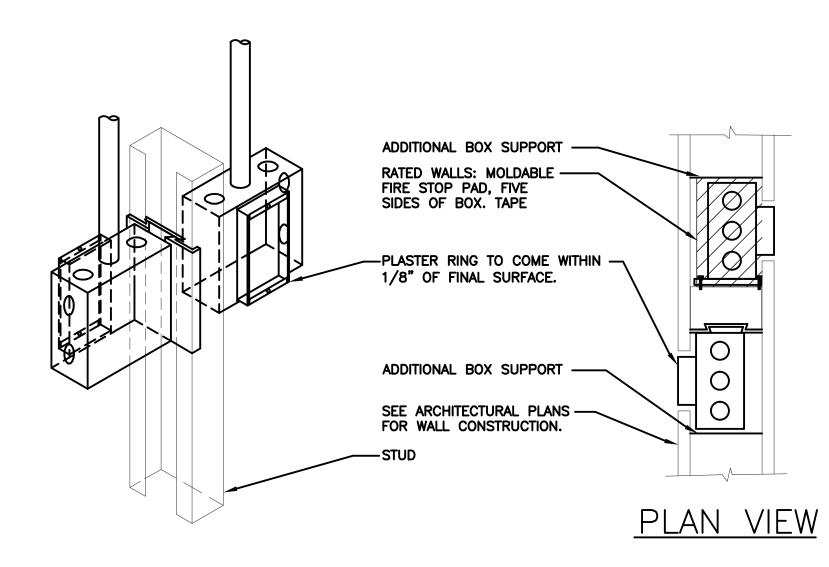
RECEPTACLE ROOF MOUNTING DETAIL

ORIGINAL SIZE OF SHEET IS 30" X 42"

, 0

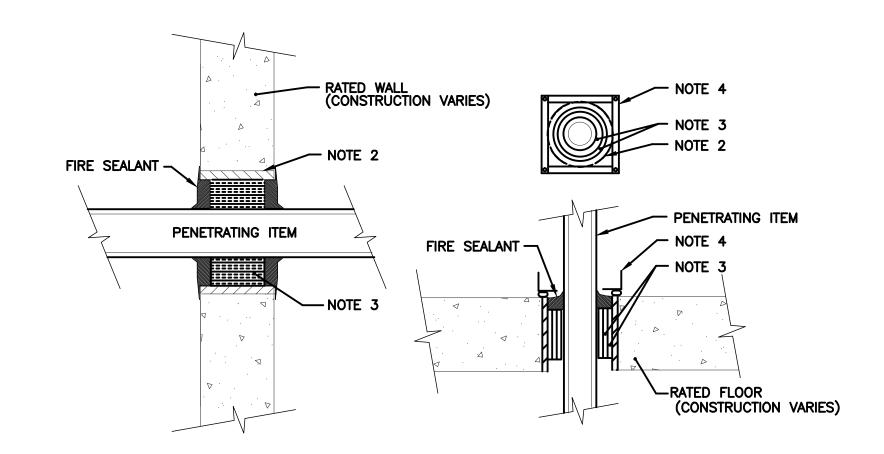
16

VA FORM 08-6231 PRINTED ON



DEVICE OPENINGS SIDE BY SIDE DETAIL

1. HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2'-0" NOT PERMITTED. SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DEVICES.



RATED FIRE BARRIER PENETRATION

PACK AROUND CONDUIT WITH -

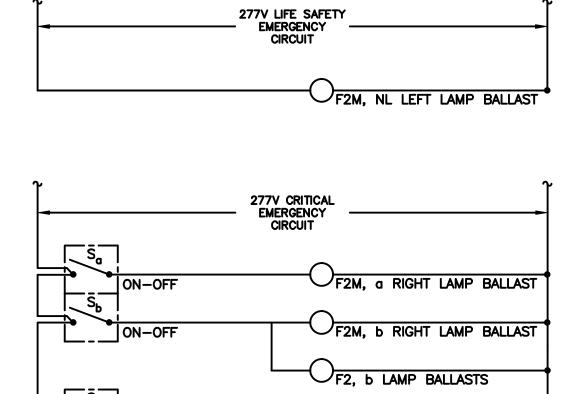
FIBERGLASS INSULATION

BOTH SIDES

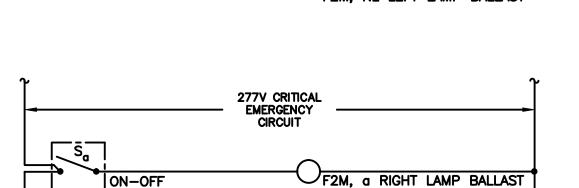
ESCUTCHEON PLATES ON

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (16080) FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.

- 2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
- 3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
- 4. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.



CONDUIT WALL PENETRATION DETAIL





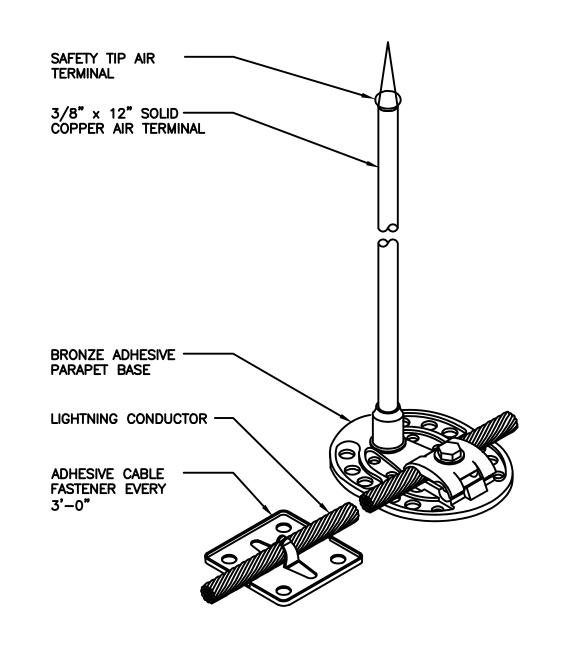
CORRIDOR SWITCH DIAGRAM

1. SEE LIGHTING PLANS FOR ACTUAL NUMBER OF LUMINAIRES.

PLASTER RING TO COME WITHIN 1/8" OF FINAL SURFACE SEE ARCHITECTURAL PLANS FOR WALL CONSTRUCTION BACKBOX MOUNTING DETAIL

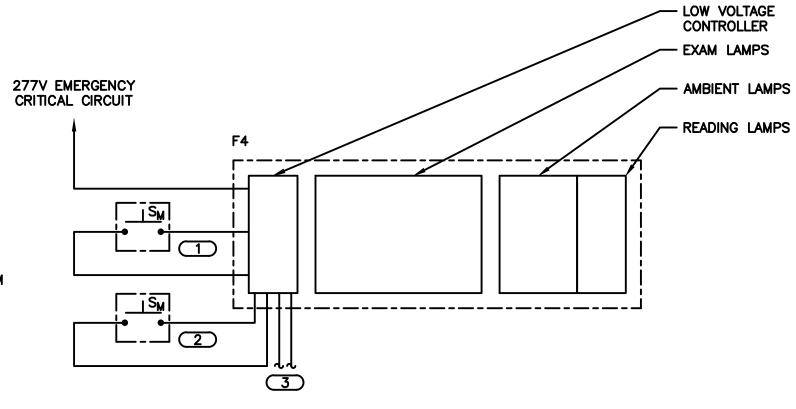
1. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.

2. THE INTENT OF THE DETAIL IS TO ENSURE DEVICE ROUGH-INS ARE SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.



ADHESIVE AIR TERMINAL

1. E.C. SHALL VERIFY COMPATIBILITY OF ADHESIVE WITH ROOFING SYSTEM SUPPLIER PRIOR TO INSTALLATION.



OVERBED PATIENT LIGHT CONTROL DIAGRAM

1. SEE LIGHTING PLANS FOR ACTUAL NUMBER OF LUMINAIRES.

EQUIPMENT PROVIDED.

1. MOMENTARY SWITCH LOCATED AT PATIENT FOOTWALL SHALL CONTROL AMBIENT AND READING LAMPS.

2. MOMENTARY SWITCH LOCATED AT PATIENT HEADWALL SHALL CONTROL EXAM

3. NURSE CALL PILLOW SPEAKER SHALL CONTROL AMBIENT AND READING LAMPS.

ROUTE 2#14 TO PILLOW SPEAKER INTERFACE. COORDINATE REQUIREMENTS WITH

FULLY SPRINKLERED

CONSTRUCTION DOCUMENTS **Drawing Title Project Title Project Number CONSULTANTS:** ARCHITECT/ENGINEERS: **INTENSIVE CARE UNIT** 589-330 Office of **ELECTRICAL DETAILS** Construction LIFE SAFETY/FIRE PROTECTION THE SEAL (S) AND SIGNATURE(S) COMMISSIONING: **Building Number** KPFF CONSULTING ENGINEERS - ST. LOUIS 303RD ENGINEERING GROUP, LLC CODE CONSULTANTS, INC. ZODIAC INTERNATIONAL APPLY ONLY TO THE DOCUMENT TO 2043 WOODLAND PARKWAY, SUITE 300 16100 CHESTERFIELD PARKWAY, SUITE 365 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET WHICH THEY ARE AFFIXED, AND WE and Facilities CHRISTNER CHESTERFIELD, MO 63017 EXPRESSLY DISCLAIM ANY SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 ST. LOUIS, MO 63146 RESPONSIBILITY FOR ALL OTHER DIRECTOR OF SPECIALTY CARE INFECTION CONTROL PRACTITIONER CHIEF ENGINEER ASSISTANT DIRECTOR DIRECTOR OF STAFF

ASSISTANT DIRECTOR OF STAFF

ASSISTANT DIRECTOR OF PATIENT SERVICES **Drawing Number** ASSOCIATE DIRECTOR Management MECHANICAL/ELECTRICAL: **ESTIMATING:** ACOUSTICAL ENGINEERS: **ENVIROMENTAL:** PLANS, SPECIFICATIONS, HARRY S. TRUMAN VAMC KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP EVIRONMENTAL CONSULTANTS, LLC ESTIMATES, REPORTS, OR OTHER ACOUSTICONTROL LLC 1204 WASHINGTON AVE. SUITE 200 1709 WASHINGTON AVENUE, LOFT 300 #15 SUNNEN DRIVE, SUITE 104 #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE ST. LOUIS, MO 63103 E502 ST. LOUIS, MO 63141 ST. LOUIS, MO 63103 COLLINSVILLE, IL ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS Checked ∣∣Drawn USED FOR ANY PART OF PARTS OF Department of Veterans Affairs THE PROJECT. 168 N MERAMEC, SUITE 400 | ST. LOUIS, MISSOURI 63105 Dwg. 261 of 296 | DAVROU | ERIPER | DAVROU © COPYRIGHT 2012 CHRISTNER INC. TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM Revisions

- WALL WITH INSULATION

- FLANGES ON EACH SIDE

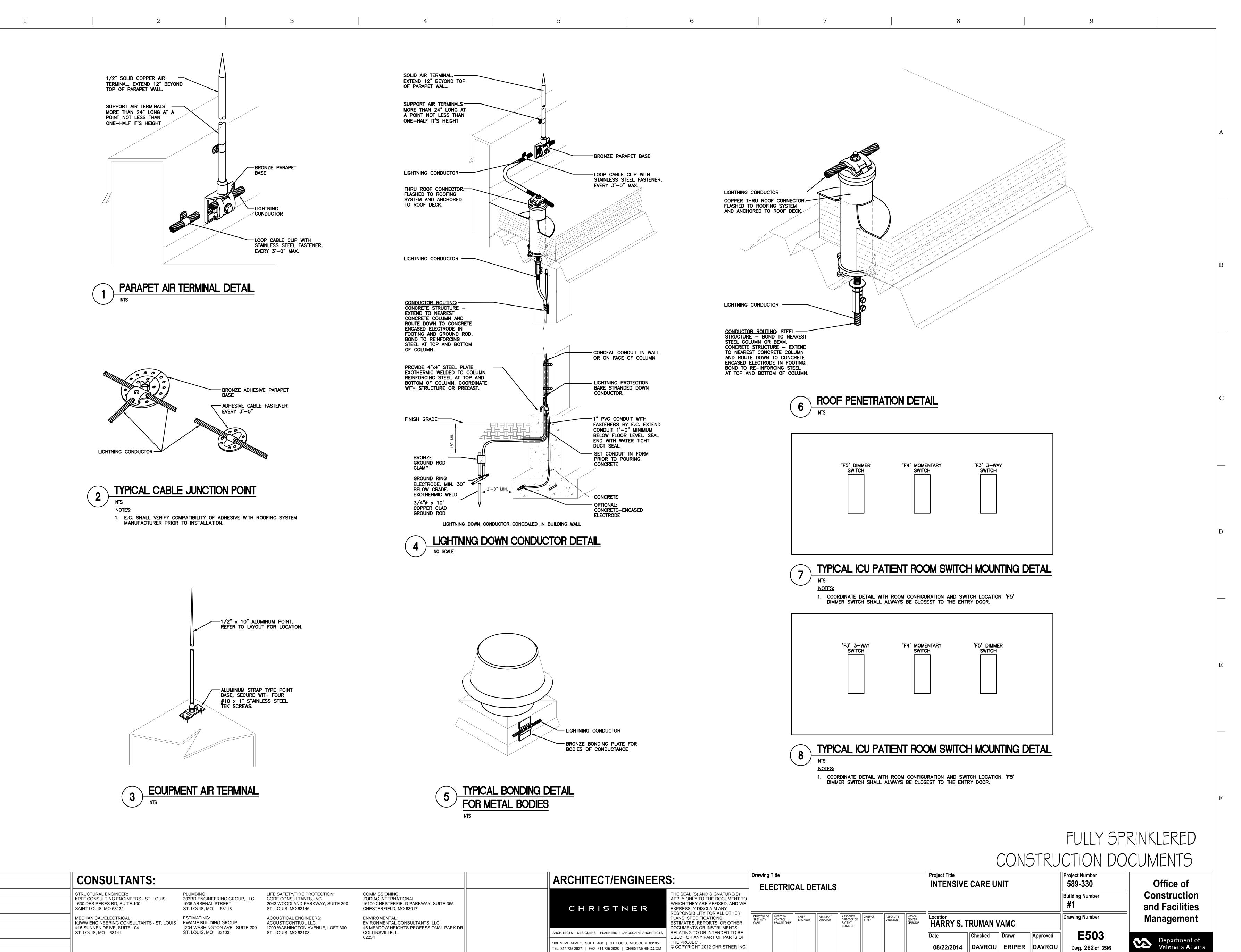
SHEET METAL SLEEVE, 2'

LARGER THAN CONDUIT

OVERALL DIAMETER.

OF WALL. CAULK AT

WALL AND SLEEVE.



© COPYRIGHT 2012 CHRISTNER INC.

TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM

| DAVROU | ERIPER | DAVROU |

Dwg. 262 of 296

Revisions

VA FORM 08-6231 **PRINTED ON**

ORIGINAL SIZE OF SHEET IS 30" X 42"

SP -	TING: (MTG) RECESSED SUSPENDED			ESCENT	DRESCENT		.125"	ACRYLIC K BAFFLE
-	CEILING SURFACE WALL		HALOG INCAN	BEN DESCEN	Г		CLEA	R ALZAK BOLIC
CV -	UNDER CABINET COVE	HS -	HIGH F		G DIODE E SODIUM	G -		PERED GLASS
	POLE OTHER (SEE DESCRIPTION)	SMH -	SUPER	. HALIDE R METAL I START N	HALIDE //ETAL HALIDE	Р-	POLY	WASHER CARBONATE
OOR: FA -	FLAT ALUMINUM	CMH -	CERAN	IIC META	METAL HALIDE NL HALIDE ESCRIPTION)	K19 -	KSH1	2 .125" ACRYLIC 9 .156" ACRYLIC IRIDESCENT SPECULAR ALUM.
FS -	FLAT STEEL REGRESSED ALUMINUM	XL -	EXTEN	DED LIFE	,	N -	NONE	
	REGRESSED STEEL	BALLAST	` '			##BF -	BALL	R (SEE DESCRIPTION) AST FACTOR
	: PAINTED AFTER FABRICATION FINISH SELECTION BY ARCHITECT	EB -	ELECT	NG BALLA RONIC B	ALLAST	HP -	HIGH	/ LOW LEVEL BALLAST PERFORMANCE-LOW BALL. FACTOR
USA -	FINISH SELECTION BY ARCHITECT				ATTERY/BALLAST NG BALLAST			I-LEVEL SWITCHING I-VOLTAGE ELECTRONIC
	DMPLETE DESCRIPTION AND THE SPECIFICATION SE TO SPECIFICATION SECTIONS LIGHTING 26 51 00 AN							
	MPS FOR THIS PROJECT SHALL BE FURNISHED AND	-		_				
LUOR	ESCENT LAMP CORRELATED COLOR TEMPERATURE	3500°, CO	LOR RE	NDERING	LAMPS	ABOVE 85,	UNLES	SS NOTED OTHERWISE.
F1	DESCRIPTION RECESSED INDIRECT, BASKET LUMINAIRE, SEALED EXTRUDED ACRYLIC DIFFUSER.	2'x4' 5.25"H	MTG RE	TYPE FL	QUANTITY & SIZE 2 28WATT F28T5	277V EB	L/L	NOTES BASIS OF DESIGN: FOCAL POINT APOLLO 2
	ONE-PIECE COLD-ROLLED STEEL REFLECTORS WITH MATTE SATIN WHITE POWDER COAT, POLYESTER POWDER PAINT AFTER	5.25 11			. 2010			7.0 0220 2
	FABRICATION, SINGLE CIRCUIT BALLAST, UL LISTED.							
F1M	RECESSED INDIRECT, BASKET LUMINAIRE, SEALED EXTRUDED ACRYLIC DIFFUSER,	2'x4' 5.25"H	RE	FL	2 28WATT F28T5	277V EB ML	0	BASIS OF DESIGN: FOCAL POINT APOLLO 2
	ONE-PIECE COLD-ROLLED STEEL REFLECTORS WITH MATTE SATIN WHITE POWDER COAT, POLYESTE POWDER PAINT AFTER					IVIL		
F0.	FABRICATION, DUAL CIRCUIT BALLAST, UL LISTED.		DE	FI	O OANATT	077\/		DAGIC OF DECICAL FOCAL POINT
F2	RECESSED INDIRECT, BASKET LUMINAIRE, SEALED EXTRUDED ACRYLIC DIFFUSER, ONE-PIECE COLD-ROLLED STEEL REFLECTORS	2'x2' 5.25"H	RE	FL	2 24WATT FP24T5HO	277V EB	0	BASIS OF DESIGN: FOCAL POINT APOLLO 2
	WITH MATTE SATIN WHITE POWDER COAT, POLYESTER POWDER PAINT AFTER FABRICATION, UL LISTED.							
F2M	RECESSED INDIRECT, BASKET LUMINAIRE, SEALED EXTRUDED ACRYLIC DIFFUSER,	2'x2' 5.25"H	RE	FL	2 24WATT FP24T5HO	277V EB	0	BASIS OF DESIGN: FOCAL POINT APOLLO 2
	ONE-PIECE COLD-ROLLED STEEL REFLECTORS WITH MATTE SATIN WHITE POWDER COAT, POLYESTER POWDER PAINT AFTER					ML		
	FABRICATION, DUAL CIRCUIT BALLAST, UL LISTED.							
F3	FAMILY AREA SCONCE, DIMMABLE	13"H 8"W 4"D	WL	FL	1 32WATT CFTR32W/ GX24Q-3	277V EB DIM		BASIS OF DESIGN: KENALL MAS813-PAN-OL-CC
F4	MULTI-FUNCTION PATIENT LIGHT, 3-COMPARTMENT RECESSED INDIRECT/DIRECT	2'X4' 6"D	RE	FL	7 55WATT FT55/2G11	277V EB, ML	N	BASIS OF DESIGN: HILL-ROM P005191
	WITH READING LIGHT, AMBIENT LIGHT PERFORATED METAL LAMP SHIELD AND EXAM LIGHT WITH RIBBED LENS, LOW VOLTAGE LIGHT							
F5	CONTROLLER COMPACT FLUORESCENT REGRESSED CLEAR TEMPERED CLASS LENS DOWN HOUT LOW	6"DIA	RE	CF	1 32W	277V EB	G	BASIS OF DESIGN: KENALL MRDL6
_	TEMPERED GLASS LENS DOWNLIGHT, LOW GLOSS REFLECTOR, HORIZONTAL LAMP, WET LOCATION	7.25"H			CFTR32W/ GX24q-3	ER		
F6	TWIN SLIM SURFACE MOUNTED RECTANGULAR MIRROR, VERTICAL INTEGRAL FLUORESCENT LAMPS SET BEHIND FROSTED PANELS ON EACH	19.8"W 36"H 2"D	WL/ RE	FL	2 24WATT F24T5HO	277V EB	G	BASIS OF DESIGN: AAMSCO 6002 ADA
	SIDE, SLOPED MOUNTING BOX FROM 2" AT BOTTOM TO 4" AT TOP, ADA COMPLIANT. REFER TO ARCHITECTURAL ELEVATIONS FOR TYPICAL	- U						
	MOUNTING HEIGHT.							
F7	NIGHT LIGHT, THRU WALL, RECESSED WALL MOUNT @ 18" AFF, STEEL COVER PLATE WITH	5.75"H 9.25"W	WL	LED	1 4100K WHITE LOW LUMEN	120V	0	BASIS OF DESIGN: KENALL MSL
	CLEAR POLYCARBONATE SPREAD LENS, UL LISTED. COLOR SELECTION BY ARCHITECT.				LED			
F8	ODAL ODVOTALLING OF 122 CONTROL		SP	CF	1 18WATT	277V	0	BASIS OF DESIGN: LBL LIGHTING
F8	OPAL CRYSTALLINE GLASS WITH CLEAR DRAW. 6' OF FIELD-CUTTABLE CORD. FLUORESCENT INCLUDES (1) 18 WATT GX24Q-2		SP	CF	1 18WATT GX24Q-2	EB	0	HS-397-OP-SC
	BASE TRIPLE TUBE COMPACT FLUORESCENT LAMP AND ELECTRONIC BALLAST; REFER TO ARCHITECTURAL ELEVATIONS FOR							
	MOUNTING HEIGHT.							
F9	STATIC GRID TROFFER, LOW PROFILE HOUSING MADE OF DIE-FORMED COLD-ROLLED STEEL, FULL LENGTH MECHANICAL LIGHT TRAPS AND	2'x4' 3.8"D	RE	FL	2 28WATT F28T5	277V EB	A	BASIS OF DESIGN: LITHONIA SP5
	POSITIVE END LIGHT SEALS, ACRYLIC LENS, BAKED WHITE ENAMEL FINISH, FULLY GASKETED, UL LISTED FOR WET LOCATIONS.							
F9F	STATIC FLANGE MOUNT TROFFER, LOW PROFILE	2'x4'	RE	FL	2 28WATT	277V	A	BASIS OF DESIGN: LITHONIA SP5
	HOUSING MADE OF DIE-FORMED COLD-ROLLED STEEL, FULL LENGTH MECHANICAL LIGHT TRAPS AND POSITIVE END LIGHT SEALS, ACRYLIC LENS,	3.8"D			F28T5	EB		
	BAKED WHITE ENAMEL FINISH, FULLY GASKETED, UL LISTED FOR WET LOCATIONS.							
F10	4' (2) - LAMP STAGGERED STRIP	4.5"W 3"D	CV	FL	2 28WATT FP28/T5	277V EB	N	BASIS OF DESIGN: LITHONIA SS
		3"D 4'L		_		ML		
-10A	3' (2) - LAMP STAGGERED STRIP	4.5"W 3"D 3'L	CV	FL	² 21WATT FP21/T5	277V EB ML	N	BASIS OF DESIGN: LITHONIA SS
-10B	2' (2) - LAMP STAGGERED STRIP	4.5"W	CV	FL	2 14WATT	277V	N	BASIS OF DESIGN: LITHONIA SS
		3"D 2'L			FP14/T5	EB ML		
F11	4' INDUSTRIAL, 10% UPLIGHT, BAKED WHITE ENAMEL FINISH, UL LISTED, SUSPENDED +96"	13.3"W 4'L	SP	FL	² 28WATT FP28/T5	120V 277V	N	
F12	A.F.F., PROVIDE WITH WIRE GUARD. COMPACT FLUORESCENT OPEN DOWNLIGHT, HORIZONTAL TRIPLE LAMP, SELF TRIM	2.9"H 6"DIA 6.5"H	RE	CF	1 32W CFTR32W/	MV, EB 277V EB	CL	BASIS OF DESIGN: GOTHAM AF
	REFLECTOR BALLAST SUITABLE FOR 26 OR 32 WATT TRIPLE TUBE LAMP	- * *			GX24q-3			
F13	SEMI RECESSED DECORATIVE COMPACT FLUORESCENT OPEN DOWNLIGHT, DIMMABLE,	5"DIA 10"H	RE	CF	1 42WATT CFTR42W/	277V EB	0	BASIS OF DESIGN: DELRAY 4730.0.2
	VERTICAL LAMP, OPAL GLASS, DIMMING 5-100%,				GX24Q-4	DIM		
F14	RECESSED INDIRECT, BASKET LUMINAIRE, SEALED EXTRUDED ACRYLIC DIFFUSER,	2'x4' 5.25"H	RE	FL	3 28WATT F28T5	277V EB	0	BASIS OF DESIGN: FOCAL POINT APOLLO 2
	ONE-PIECE COLD-ROLLED STEEL REFLECTORS WITH MATTE SATIN WHITE POWDER COAT, POLYESTER POWDER PAINT AFTER					ML		
	FABRICATION, DUAL CIRCUIT BALLAST, UL LISTED.							
F15	COMPACT FLUORESCENT REGRESSED CLEAR TEMERED GLASS LENS DOWNLIGHT, HORIZONTAL LAMP, WET LOCATION	8"DIA 7.25"H	RE	CF	2 32W CFTR32W/ GX24q-3	277V EB	G	BASIS OF DESIGN: KENALL MRDL8
-15D	COMPACT FLUORESCENT REGRESSED CLEAR TEMERED GLASS LENS DIMMABLE DOWNLIGHT,	8"DIA 7.25"H	RE	CF	2 32W CFTR32W/	277V EB	G	BASIS OF DESIGN: KENALL MRDL8
F16	HORIZONTAL LAMP, WET LOCATION	0.5	RE	CF	GX24q-3	277V	C	BASIS OF DESIGN: GOTHAM AF
. 10	COMPACT FLUORESCENT OPEN DOWNLIGHT, HORIZONTAL TRIPLE LAMP, SELF TRIM REFLECTOR	8"DIA 8.75"H	INE	- GF	2 32W CFTR32W/ GX24q-3	EB	OL.	S.1.5.5 OF PEGION, GOTHAM AF
					co	NSI	JL.	TANTS:

LUMINAIRE SCHEDULE

F17	STATIC GRID TROFFER, LOW PROFILE HOUSING MADE OF DIE-FORMED COLD-ROLLED STEEL, FULL LENGTH MECHANICAL LIGHT TRAPS AND POSITIVE END LIGHT SEALS, ACRYLIC LENS, BAKED WHITE ENAMEL FINISH, FULLY GASKETED, UL LISTED FOR WET LOCATIONS.	2'x4' 3.8"D	RE	FL	3 28WATT F28T5	277V EB ML	A	BASIS OF DESIGN: LITHONIA SP
F18	DIRECT LINEAR, RECESSED, FLANGELESS. TWO LAMPS PER 4' SECTION	8"W 6"D 49.6" L	RE	FL	2 28WATT F28T5	277V EB		BASIS OF DESIGN: FOCAL POINT SEEM 4
F19	LED LUMINAIRE, 8'-9"L. REFER TO ARCHITECTURAL INTERIOR SECTION BORROWLITE DETAIL FOR MOUNTING DETAIL.	3"x3"	CV	LED	11.1 WATTS/FOOT	277V		BASIS OF DESIGN: IO LIGHTING RAYE 3KVHO-C33-1
F20	COMPACT FLUORESCENT REGRESSED LENS DOWNLIGHT, HORIZONTAL LAMP, WET LOCATION, COLD START BALLAST, I.C. RATED	8"DIA 8.5"H	RE	CF	1 _{32W} CFTR32W/ GX24q-3	120V 277V EB	GP	
EX1	SINGLE-FACED EDGE-LIT EXIT SIGN, MIRROR FINISH, INJECTION-MOLDED VIRGIN ACRYLIC PANEL, EXTRUDED ALUMINUM HOUSING WITH BRUSHED ALUMINUM FINISH, GREEN 6" HIGH LETTER ON CLEAR BACKGROUND, UL LISTED.	13.3"W 8"H 2"D	CL	LED	1 5WATT LED	277V	N	BASIS OF DESIGN: LITHONIA ED
EX2	DOUBLE-FACED EDGE-LIT EXIT SIGN, MIRROR FINISH, INJECTION-MOLDED VIRGIN ACRYLIC PANEL, EXTRUDED ALUMINUM HOUSING WITH BRUSHED ALUMINUM FINISH, GREEN 6" HIGH LETTER ON CLEAR BACKGROUND, UL LISTED.	13.3"W 8"H 2"D	CL	LED	1 5WATT LED	277V	N	BASIS OF DESIGN: LITHONIA ED

			DISCO	NNE (CT AI	ND S	TAR	TER SC	HEDULE
				REMARKS:					
STARTER	TYPE:			SA -	STANDAR	D ACCESS	ORIES (INC	CLUDES * ITEMS)	
FV -	FULL VOLT	TAGE		*CT -	CONTROL	.TRANSFO	RMER,	PF - I	PHASE FAILURE RELAY
	WYE - DEL				FUSED 12				(5 HP OR GREATER)
	REVERSIN	_		_	ELECTRO		-	_	MELTING THERMAL OVERLOADS
	2 SPEED, 2				HAND-OFF				2 SPEED SELECTOR SWITCH IN DOOR
	2 SPEED, 1			*RP -	RED (RUN) PILOT LIC	GHT IN		GREEN (OFF) PILOT LIGHT IN DOOR
	REDUCED		AUTOXFMR		DOOR				4-CONVERTIBLE AUXILIARY CONTACTS
	SOLID STA	=		*TA -	TWO CON				ELECTRICAL INTERLOCK (2)-N.O.& (2)-N.C
_	MANUAL S				_	Y CONTAC	_		START-STOP PUSHBUTTON IN DOOR
	MANUAL S	-		S/N -	INSULATE		\L		HANDLE PADLOCK HASP
FS -	FUSED SW	/ITCH			ASSEMBL	. Y		CT ·	120V CONTROL TRANSFORMER W/ PRIMAR
			NOTE: AL	I DISCONNEC	TS (EVCE	OT MANUAL	CTADTE	FV I	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY
	DISCON	NECT TYPE		L DISCONNEC	CTS (EXCEP		L STARTEF	FV I	
		INECT TYPE	& RATING	L DISCONNEC	CTS (EXCEP			FV I	FIRE ALARM SHUNT TRIP VOLTAGE MONITO RELAY
ITFM	HEA	NON-	& RATING WITCH CIRCUIT	-		STAI NEMA	RTER	FV I	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE.
ITEM MS-1		VY DUTY S	& RATING	L DISCONNEC VOLTAGE 480	POLES	STAI		FV I	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY
ITEM MS-1	HEA	NON-	& RATING WITCH CIRCUIT	VOLTAGE	POLES	STAI NEMA	TYPE	NEMA ENCLOSURE SURFACE	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS
	HEA	NON-	& RATING WITCH CIRCUIT	VOLTAGE	POLES	STAI NEMA	TYPE	FV I	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS
<u>MS-1</u>	HEA	NON-	& RATING WITCH CIRCUIT	VOLTAGE	POLES	STAI NEMA	TYPE	NEMA ENCLOSURE SURFACE	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS
	HEA	NON-	& RATING WITCH CIRCUIT	VOLTAGE 480	POLES 3	STAI NEMA	TYPE MX	NEMA ENCLOSURE 1 SURFACE MOUNT 1 SURFACE	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS RP
<u>MS-1</u>	HEA	NON-	& RATING WITCH CIRCUIT	VOLTAGE 480	POLES 3	STAI NEMA	TYPE MX	NEMA ENCLOSURE SURFACE MOUNT	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS RP
<u>MS-1</u>	HEA	NON-	& RATING WITCH CIRCUIT	VOLTAGE 480	POLES 3	STAI NEMA	TYPE MX	NEMA ENCLOSURE 1 SURFACE MOUNT 1 SURFACE	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS RP
MS-1 MX-1	FUSED	NON-	& RATING WITCH CIRCUIT	VOLTAGE 480	POLES 3	NEMA SIZE	TYPE MX	NEMA ENCLOSURE 1 SURFACE MOUNT 1 SURFACE MOUNT	FIRE ALARM SHUNT TRIP VOLTAGE MONITORELAY /Y DUTY TYPE. REMARKS RP

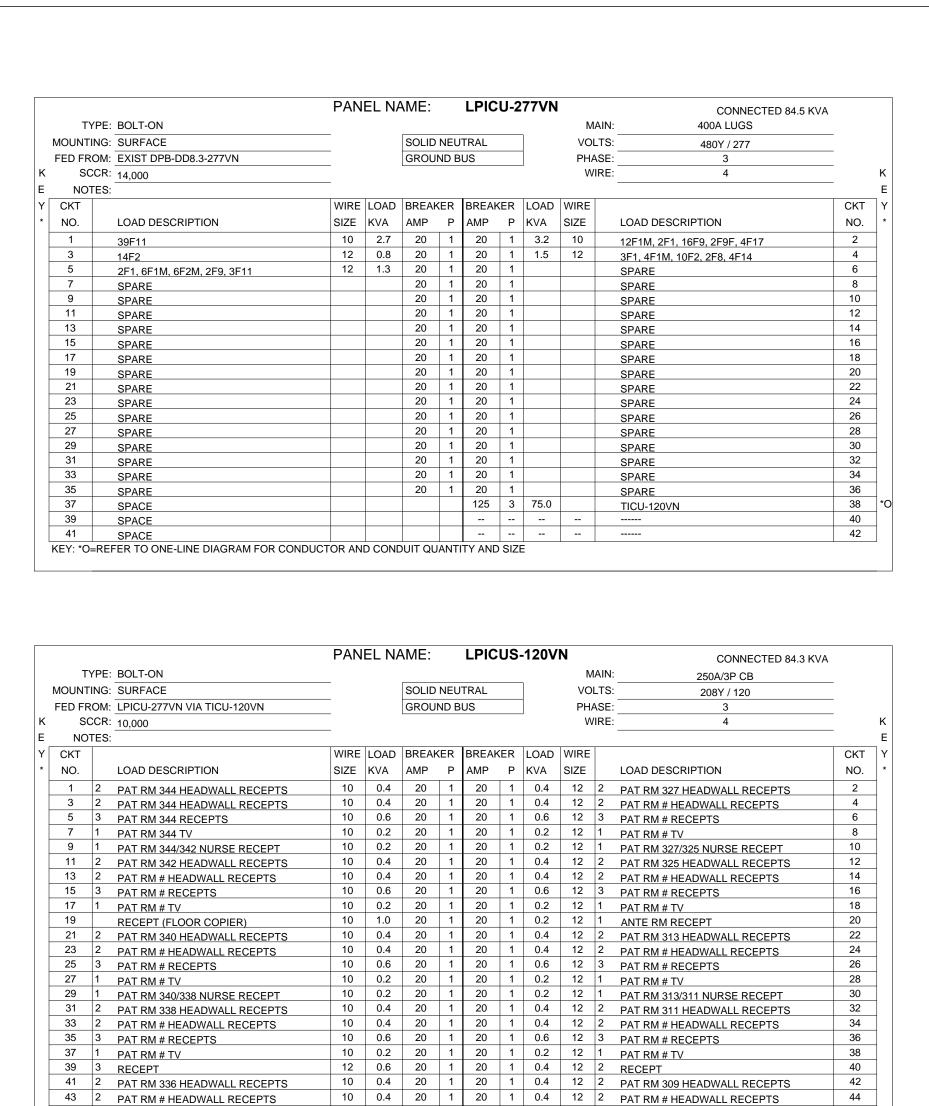
VARIABLE FREQUENCY DRIVE SCHEDULE STARTER TYPE: SA - STANDARD ACCESSORIES PWM - PULSE WIDTH MODULATED TA - TWO CONVERTIBLE AUXILIARY CONTACTS ISO - ISOLATION TRANSFORMER (INCLUDES * ITEMS) 6SV - 6 STEP VOLTAGE SOURCE *MA - MANUAL SPEED ADJUSTMENT SHZ - SKIP FREQUENCY CAPABILITY *ET - ELECTRONIC THERMAL OVERLOADS RSS - REMOTE START-STOP LINE DISCONNECT *CT - CONTROL TRANSFORMER, FUSED, RDR - REMOTE DRIVE RUN DS - DISCONNECT SWITCH RFT - REMOTE FAULT TRIP CB - CIRCUIT BREAKER *HA - HAND-OFF-AUTO DOOR SWITCH TO - MELTING THERMAL OVERLOADS PN - 3-15 PSI PRESSURE TRANSDUCER | LR - INTEGRAL LINE REACTOR | 420 -REMARKS 'SA', 'LR', 'RSS', 'RDR' 'SA', 'LR', 'RSS', 'RDR' 'SA', 'LR', 'RSS', 'RDR'

		٦	ΓRAN	ISFO	RM	ER S	CH	IEDL	JLE	•	
TYPE	:									REMA	ARKS:
K4 K13	- NEMA TP 1 - K4 RATED - K13 RATED - HARMONIC	TP 1 DRY) TP 1 DR\ ; MITIGAT	TYPE / TYPE ING TP 1		BB -	AUTOTRAN BUCK-BOO LIQUID FILI	ST	MER		CP - RS - FL - NV - NL -	ALUMINUM WINDINGS COPPER WINDINGS EPOXY RESIN ENCAPSULATED FILTERED NON-VENTILATED 200% RATED NEUTRAL ELECTROSTATIC SHEILD
	KVA		MAX. TEMP.	PRIMA	RY	SECOND	ARY	-	TAPS		
ITEM	RATING	TYPE	RISE C.	VOLTS	PH	VOLTS	PH	% REG	#(+)	#(-)	REMARKS
TICU-120VN	75	TP1	150	480	3	208Y/ 120	3	2.5	2	4	СР
TICU-120VC	45	TP1	150	480	3	208Y/ 120	3	2.5	2	4	СР
TICU-120VQ	15	TP1	150	480	3	208Y/ 120	3	2.5	2	4	СР

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

														OUIVILIVIA	
		CONSULTANTS:				ARCHITECT/ENGINEER	RS:	Drawing Title ELECTRICAL SCHEDULES	Project Title INTENSIVE	E CARE UN	11T		Project Number 589-330	Office o	of
		STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	CHRISTNER	THE SEAL (S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND WE EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER		Location				Building Number #1 Drawing Number	Construct and Facilit	ities
		MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS #15 SUNNEN DRIVE, SUITE 104 ST. LOUIS, MO 63141	ESTIMATING: KWAME BUILDING GROUP 1204 WASHINGTON AVE. SUITE 200 ST. LOUIS, MO 63103	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300 ST. LOUIS, MO 63103	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. COLLINSVILLE, IL 62234	ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS	PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF	SPECIALTY CONTROL PRACTITIONER ENGINEER DIRECTOR DIRECTOR STAFF DIRECTOR DIRECTOR DIRECTOR	HARRY S.			Approved	F601	Managem	
No. Date	e Revisions					168 N MERAMEC, SUITE 400 ST. LOUIS, MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM	THE PROJECT. © COPYRIGHT 2012 CHRISTNER INC		08/22/2014	DAVROU	ERIPER	DAVROU	Dwg. 263 of 296	Departme Veterans	

3 5



PAT RM # RECEPTS

NURSE STATION 359

NURSE STATION 359

NURSE STATION 359

NURSE STATION 359

RECEPTS

RECEPTS

RECEPT

RECEPT

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

PANEL LPICUN-120VN

10 0.6 20 1 20 1 1.0 12 5 RECEPTS (PROJECTOR, SMARTBOARD) 76

RECEPTS, 4 SENSORS

RECEPTS (1-MONITOR)

RECEPT (1-REFRIGERATOR)

RECEPT (1-REFRIGERATOR)

RECEPT (1-COFFEE MAKER)

RECEPT (1-ICE/WATER DISPENSER)

RECEPT (1-MICROWAVE)

PAT RM 309/307 NURSE RECEPT

PAT RM # TV

10 0.4 20 1 20 1 0.4 12 2 PAT RM 307 HEADWALL RECEPTS

10 0.4 20 1 20 1 0.4 12 2 PAT RM # HEADWALL RECEPTS

10 0.6 20 1 20 1 0.6 12 3 PAT RM # RECEPTS

10 0.2 20 1 20 1 0.2 12 1 PAT RM # TV

10 0.4 20 1 20 1 0.4 12 2 RECEPTS

12 0.8 20 1 20 1 1.5 12

45 3 PAT RM # RECEPTS

55 3 PAT RM # RECEPTS

65 3 PAT RM # RECEPTS

67 1 PAT RM # TV

75 3 PAT RM # RECEPTS

1 NOURISH 360

1 NOURISH 360

87 3 NURSE STATION 364

89 2 NURSE STATION 364

93 5 NURSE STATION 364

91 4 SWAMP 363

SPARE

SPARE

SPARE

SPACE

SPACE

95 SPARE

99 SPARE

105 SPACE 107 SPACE

109 SPACE

113 SPACE

115 SPACE

117 SPACE

119 SPACE

121 SPACE

123 SPACE

VA FORM 08-6231 PRINTED ON

77 1 PAT RM # TV

49 1 PAT RM 336/334 NURSE RECEPT

51 2 PAT RM 334 HEADWALL RECEPTS

53 2 PAT RM # HEADWALL RECEPTS

61 2 PAT RM 332 HEADWALL RECEPTS

63 2 PAT RM # HEADWALL RECEPTS

69 1 PAT RM 332/330 NURSE RECEPT

73 2 PAT RM # HEADWALL RECEPTS

2 PAT RM 330 HEADWALL RECEPTS

79 1 NOURISH 360 ICE/WATER DISPENSER

85 1 NOURISH 360 BLANKET WARMER

KEY: *O=REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT QUANTITY AND SIZE

NOTE: PROVIDE EXTRA SIDE GUTTER SPACE AS NEEDED FOR INSTALLATION OF BRANCH CIRCUIT CONDUCTORS

47 1 PAT RM # TV

57 1 PAT RM # TV

59 SPARE

		IG: SURFACE	_		SOLID					VOLTS:		_
		M: EXIST HOSPITAL 3RD FLR 600A BUS DUC	<u>T</u>		GROU	ND E	BUS			PHASE:		_
K		CR: 18,000	_							WIRE:	4	_
E_	NOTE	ES:	_									
Υ	CKT		WIRE	LOAD	BREAK	ΚER	BREA	KER	LOAD	WIRE		
*	NO.	LOAD DESCRIPTION	SIZE	KVA	AMP	Р	AMP	Р	KVA	SIZE	LOAD DESCRIPTION	1
	1	6F9	12	0.4	20	1	20	1	4.0	12	PAT RM 307,309,311, 313 LTG (4F4, 16F5, 8F3, 4F15D, 8F15, 4F6) NURSE STATION LTG (4F13)	
	3	2F9, 4F2	12	0.4	20	1	20	1	4.1	12	PAT RM 325,327,330, 332 LTG (4F4, 16F5, 8F3, 4F15D, 8F15, 4F6) NURSE STATION LTG (4F13) ANTE RM LTG (1F9)	
	5	PAT RM 338,340,342, 344 LTG (4F4, 16F5, 8F3, 4F15D, 8F15, 4F6) NURSE STATION LTG (4F13)	12	4.0	20	1	20	1	2.0	12	PAT RM 334,336 LTG (2F4, 8F5, 4F3, 2F15D, 4F15, 2F6) NURSE STATION LTG (2F13)	
	7	CORRIDOR LTG (19F2, 31F2M)	12	2.8	20	1	20	1	1.4	12	NURSE STATION LTG (12F10, 9F12), SWAMP LTG (1F10, 1F10A, 2F10B)	
	9	4F11	12	0.3	20	1	20	1			SPARE	
	11	SPARE			20	1	20	1			SPARE	
	13	SPARE			20	1	20	1			SPARE	
	15	SPACE									SPACE	
	17	SPACE									SPACE	
	19	SPACE									SPACE	
	21	SPACE									SPACE	
	23	SPACE									SPACE	
	25	SPACE									SPACE	
	27	SPACE									SPACE	
	29	SPACE									SPACE	_
	31	SPACE									SPACE	
L	33	SPACE			1			1			SPACE	_
	35	SPACE									SPACE	
L	37	SPACE					70	3	45.0		TICU-120VC	1
L	39	SPACE										
L	41	SPACE SPACE	TOD 41	D 001					<u></u>			
	KEY: *O=I	REFER TO ONE-LINE DIAGRAM FOR CONDUC	TOR AN	D CONI	JUII QU	JANI	IIY ANI) SIZI	E			

PANEL NAME: LPICUS-120VC

SIZE KVA AMP P AMP P KVA SIZE

10 0.2 20 1 20 1 0.2 12 1

12 1.0 20

10 0.2 20

10 0.2 20

SOLID NEUTRAL

GROUND BUS

TYPE: BOLT-ON

FED FROM: LPICU-277VC VIA TICU-120VC

³ PAT RM 344 RECEPTS

PAT RM # RECEPTS

PAT RM # RECEPTS

29 4 PAT RM 340/338 NURSE RECEPT

35 1 PAT RM # HEADWALL RECEPTS

41 1 PAT RM 336 HEADWALL RECEPTS

45 1 PAT RM # HEADWALL RECEPTS

51 1 PAT RM 334 HEADWALL RECEPTS

59 4 PAT RM 332/330 NURSE RECEPT

61 1 PAT RM 332 HEADWALL RECEPTS

63 1 PAT RM # HEADWALL RECEPTS

65 1 PAT RM # HEADWALL RECEPTS

67 1 PAT RM # HEADWALL RECEPTS

75 1 PAT RM # HEADWALL RECEPTS

3 PAT RM # RECEPTS

79 1 NOURISH 360 REFRIGERATOR

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

1 PAT RM 330 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

43 1 PAT RM # HEADWALL RECEPTS

49 4 PAT RM 336/334 NURSE RECEPT

37 3 PAT RM # RECEPTS

47 3 PAT RM # RECEPTS

57 3 PAT RM # RECEPTS

69 4 PAT RM # RECEPTS

81 3 NURSE STATION 364

83 3 NURSE STATION 364

93 4 NURSE STATION 364

95 4 NURSE STATION 364

97 6 NURSE STATION 364

99 VAV CONTROL POWER

VAV CONTROL POWER

PAT RM 330 HEADWALL CIRCUIT

PAT RM 332 HEADWALL CIRCUIT

PAT RM 334 HEADWALL CIRCUIT

PAT RM 336 HEADWALL CIRCUIT

PAT RM 338 HEADWALL CIRCUIT

PAT RM 340 HEADWALL CIRCUIT

PAT RM 342 HEADWALL CIRCUIT PAT RM 344 HEADWALL CIRCUIT

KEY: *O=REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT QUANTITY AND SIZE

85 2 SWAMP 363

87 2 SWAMP 363

89 2 SWAMP 363

91 3 SWAMP 363

123 SPACE

39 2 MONITORS

19 3 RECEPTS

9 4 PAT RM 344/342 NURSE RECEPT

PAT RM 344 HEADWALL RECEPTS

PAT RM 344 HEADWALL RECEPTS

PAT RM 342 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

1 PAT RM 338 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

1 PAT RM 344 HEADWALL RECEPTS

NO. LOAD DESCRIPTION

MOUNTING: SURFACE

SCCR: 10,000

CONNECTED 46.5 KVA

150A/3P CB

PAT RM 327 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM 327/325 NURSE RECEPT

PAT RM # HEADWALL RECEPTS

PAT RM 325 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM 313 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM 313/311 NURSE RECEPT

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM 309 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM 307 HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

PAT RM # HEADWALL RECEPTS

NURSE STATION 359

NURSE STATION 359

NURSE STATION 359

NURSE STATION 359

MEDS 361 PYXIS

MEDS 361 PYXIS

MEDS 361 PYXIS

VAV CONTROL POWER

PAT RM 307 HEADWALL CIRCUIT

PAT RM 309 HEADWALL CIRCUIT

PAT RM 311 HEADWALL CIRCUIT

PAT RM 313 HEADWALL CIRCUIT

PAT RM 325 HEADWALL CIRCUIT

MEDS 361 REFRIGERATOR

MEDS 361

RECEPTS

RECEPTS

SPARE

SPARE

PAT RM 311 HEADWALL RECEPTS

PAT RM # RECEPTS

PAT RM # RECEPTS

PAT RM # RECEPTS

RECEPTS

20 1 0.6 12 3 PAT RM # RECEPTS

20 1 0.6 12 3 PAT RM # RECEPTS

1 20 1 0.8 12 4 NURSE STATION 359

10 0.8 20 1 20 1 0.8 12 4 PAT RM 309/307 NURSE RECEPT

10 0.2 20 1 20 1 0.8 12 4 NURSE STATION 359

12 0.4 20 1 30 2 0.2 10 1 RECEPT

12 0.6 20 1 20 1 0.2 12 1 DOOR

12 0.8 20 1 20 1 0.4 12 2 RECEPT

10 0.2 20 1 20 1 0.2 12 PAT RM 327 HEADWALL CIRCUIT

10 0.2 20 1 20 1 0.8 12 4 NURSE STATION 359

Ξ	NOTE										
- / [CKT		WIRF	LOAD	BREAK	ŒR	BREAK	ŒR	LOAD	WIRE	
	NO.	LOAD DESCRIPTION	SIZE	KVA	AMP	Р	AMP		KVA	SIZE	LOAD DESCRIPTION
	1	EXISTING CIRCUIT			20	1	20	1			EXISTING CIRCUIT
L	3	EXISTING CIRCUIT			20	1	20	1			EXISTING CIRCUIT
L	5	EXISTING CIRCUIT			20	1	20	1			EXISTING CIRCUIT
L	7	EXISTING CIRCUIT			20	1	20	1			EXISTING CIRCUIT
L	9	EXISTING CIRCUIT			50	3	50	3			EXISTING CIRCUIT
L	11										
L	13										
L	15	EXISTING CIRCUIT			20	1					EXISTING SPACE
L	17	EXISTING CIRCUIT			20	1					EXISTING SPACE
L	19	14F11	10	1.0	20	1					EXISTING SPACE
L	21	4F1, 8F2, 19F2M, 6F6	10	2.1	20	1					EXISTING SPACE
L	23	6F20	10	0.3	20	1					EXISTING SPACE
	25	EXISTING SPACE									EXISTING SPACE
L	27	EXISTING SPACE									EXISTING SPACE
L	29	EXISTING SPACE									EXISTING SPACE
	31	EXISTING SPACE									EXISTING SPACE
							Kioricc		WATCH	EXISTIN	
_							None		WATCH	EAISTIN	G
			PAN		AME:						.9-120VE NEW CONNECTED 0.
		PE: BOLT-ON	PAN	EL NA			EXIS	TIN			.9-120VE NEW CONNECTED 0.
	TYF		PAN	EL NA	\ME:		EXIS IC TYPE	TIN		B-DD8	. 9-120VE NEW CONNECTED 0. IN: 100A MCB
	TYF MOUNTIN	PE: BOLT-ON	PAN	EL NA	AME:	ectr NEU	EXIS IC TYPE TRAL	TIN		B-DD8	.9-120VE NEW CONNECTED 0. IN: 100A MCB TS: 208Y / 120
-	TYF MOUNTIN FED FRC	PE: BOLT-ON NG: SURFACE	PAN	EL NA	AME: RAL ELE SOLID	ectr NEU	EXIS IC TYPE TRAL	TIN		B-DD8 MA VOL	.9-120VE NEW CONNECTED 0. IN: 100A MCB S: 208Y / 120 SE: 3
1	TYF MOUNTIN FED FRC	PE: BOLT-ON NG: SURFACE LPB-DD8.9-277VE VIA TB-DD8.9-120VE CR: 22,000	PAN 	EL NA	AME: RAL ELE SOLID	ectr NEU	EXIS IC TYPE TRAL	TIN		B-DD8 MA VOL	.9-120VE NEW CONNECTED 0. IN: 100A MCB S: 208Y / 120 SE: 3
•	TYF MOUNTIN FED FRC SCC NOTE	PE: BOLT-ON NG: SURFACE LPB-DD8.9-277VE VIA TB-DD8.9-120VE CR: 22,000		EL NA	AME: RAL ELE SOLID GROUN	ECTR NEU ND B	EXIS IC TYPE TRAL US	TIN	G LPI	B-DD8 MA VOL PHAS WIF	.9-120VE NEW CONNECTED 0. IN: 100A MCB S: 208Y / 120 SE: 3
ſ	TYF MOUNTIN FED FRC SCC	PE: BOLT-ON NG: SURFACE LPB-DD8.9-277VE VIA TB-DD8.9-120VE CR: 22,000		EL NA	AME: RAL ELE SOLID	ECTR NEU ND B	EXIS IC TYPE TRAL	TIN		B-DD8 MA VOL	.9-120VE NEW CONNECTED 0. IN: 100A MCB S: 208Y / 120 SE: 3
	TYF MOUNTIN FED FRO SCO NOTE CKT	PE: BOLT-ON NG: SURFACE DM: LPB-DD8.9-277VE VIA TB-DD8.9-120VE CR: 22,000 ES: LOAD DESCRIPTION	WIRE	EL NA GENEI	AME: RAL ELE SOLID GROUM	ECTR NEU ND B	EXIS IC TYPE TRAL US	TIN	G LPI	B-DD8 MA VOL* PHAS WIF	.9-120VE NEW CONNECTED 0. IN: 100A MCB TS: 208Y / 120 SE: 3 RE: 4 LOAD DESCRIPTION
•	TYF MOUNTIN FED FRO SCO NOTE CKT NO.	PE: BOLT-ON NG: SURFACE DM: LPB-DD8.9-277VE VIA TB-DD8.9-120VE 22,000 ES: LOAD DESCRIPTION EXISTING CIRCUIT	WIRE	EL NA GENEI	AME: RAL ELE SOLID GROUN	ECTR NEU ND B	EXIS IC TYPE TRAL US BREAK AMP	TIN E AQ	G LPI	B-DD8 MA VOL* PHAS WIF	NEW CONNECTED 0.1 100A MCB 100A MCB
	TYF MOUNTIN FED FRO SCO NOTE CKT NO.	PE: BOLT-ON NG: SURFACE LPB-DD8.9-277VE VIA TB-DD8.9-120VE 22,000 ES: LOAD DESCRIPTION EXISTING CIRCUIT EXISTING CIRCUIT	WIRE	EL NA GENEI	AME: RAL ELE SOLID GROUN BREAK AMP 20	ECTR NEU ND B	EXIS IC TYPE TRAL US BREAK AMP 20	TIN E AQ	G LPI	B-DD8 MA VOL* PHAS WIF	New Connected 0.
•	TYF MOUNTIN FED FRO SCO NOTE CKT NO.	PE: BOLT-ON NG: SURFACE DM: LPB-DD8.9-277VE VIA TB-DD8.9-120VE 22,000 ES: LOAD DESCRIPTION EXISTING CIRCUIT	WIRE	EL NA GENEI	AME: RAL ELE SOLID GROUN BREAK AMP 20 20	ECTR NEU ND B	EXIS IC TYPE TRAL US BREAK AMP 20 20	TIN E AQ	G LPI	B-DD8 MA VOL* PHAS WIF	NEW CONNECTED 0.1 100A MCB 100A MCB

TYPE: BOLT-ON

FED FROM: DP-LIFE SAFET

EXISTING CIRCUIT

EXISTING CIRCUIT

EXISTING SPACE

EXISTING SPACE

EXISTING SPACE

EXISTING SPACE

K SCCR: 35,000

KEY: *O=REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT QUANTITY AND SIZE

MOUNTING: SURFACE

PANEL NAME: **EXISTING LPB-DD8.9-277VE**

GENERAL ELECTRIC TYPE AQ

SOLID NEUTRAL

GROUND BUS

25	EXISTING SPACE									E	EXISTING SPACE	26			
27	EXISTING SPACE									E	EXISTING SPACE	28			
29	EXISTING SPACE									E	EXISTING SPACE	30		V	ИOL
KEY:*NE	B=PROVIDE NEW CIRCUIT BREAKER IN EXI	STING SPAC	E WITH	H CHARA	CTE	RISTICS	S TO	MATCH	EXISTI	NG *H	=RED HANDLE LOCK			F	FED
														K	
														Е	
														Υ	СК
														*	NC
	DISTRIBUTION PAN	NEL:		DI	PB-	ICU-4	80V	/Q			CONNECTED 63.8 KVA				1
TY	YPE: BOLT-ON								M	AIN:	250A/3P CB				3
MOUNT	ING: SURFACE			SOLID	NEU	TRAL			VO	LTS:	480	-			5
FED FR	OM: EXIST DPB-H14-480VQ			GROU	ND B	US			PHA	ASE:	3	-			7
SC	CCR: 35,000							_	W	IRE:	3	-	K		9
	TES:									_		-	Е		11
CKT		WIRE	LOAD	BREAK	(FR	BREAK	(FR	LOAD	WIRE			СКТ	$\neg_{\mathbf{Y}}$		13
NO.	LOAD DESCRIPTION		KVA	AMP	P	AMP	P	_	SIZE	١,	LOAD DESCRIPTION	NO.	*		15
							_						- 1		17
1	AHU SUPPLY FAN 1-SF-47	3	41.4	100	3	30	3	11.2	10		AHU RETURN FAN 1-RF-48 	2	4		19
					 								-	L	21
3		12	2.7	20	3	20	3	2.7	12			4	-	L	23
	HEATING PUMP 1-HWP-2										HEATING PUMP 1-HWP-1	-	-	L	25
					 								1	L	27
5	HEATING PUMP 1-HWP-3	12	1.3	20	3	20	3	0.9	12		EXHAUST FAN 1-EF-49	6	-	L	29
													1	L	31
							 			-			1	-	33
7	EXHAUST FAN 1-EF-50	12	0.9	20	3	20	3	0.9	12	F	EXHAUST FAN 1-EF-52	8	1	F	35
													1	\vdash	37
										-			1	\vdash	41
9	EXHAUST FAN 1-EF-53	12	0.9	20	3		3			5	SPACE	10	7	\vdash	43
														\vdash	
										-				H	45 47
11	SPACE				3		3			5	SPACE	12]	\vdash	47
										-			_	\vdash	51
										-				H	53
13	SPACE				3	20	3	0.9	*0		FICU-120VQ	14	1	-	
										-			4	-	55
										-				\vdash	57

EXISTING CIRCUIT

AREA ALARM PANEL

EXISTING SPACE

EXISTING SPACE

EXISTING SPACE

EXISTING SPACE

EXISTING SPACE

0.5 12 FIRE ALARM NEP

NEW CONNECTED 3.4 KVA

100A LUGS

			PAN	EL NA	AME:		LPIC	U-1	20VQ		CONNECTED 6.8 K	VA
	TYP	E: BOLT-ON								MAI	N: 60A/3P CB	
	MOUNTING	G: SURFACE			SOLID	NEU	TRAL			VOLT	S: 208Y / 120	
	FED FROM	M: DPB-ICU-480VQ VIA TICU-120VQ			GROU	ND B	US		1	PHAS	E: 3	
K	SCC	R: 22,000							_	WIR	E: 4	
Е	NOTE											
Υ	CKT		WIRE	LOAD	BREAK	ER	BREAK	ER	LOAD	WIRE		CKT
*	NO.	LOAD DESCRIPTION	SIZE	KVA	AMP	Р	AMP	Р	KVA	SIZE	LOAD DESCRIPTION	NO
	1	EXHAUST FAN 1-EF-51	10	0.7	20	1	20	1	0.8	10	EXHAUST FAN 1-EF-54	2
*H	3	UNIT HEAT 1-UH-1	12	0.7	20	1	20	1	0.7	12	UNIT HEAT 1-UH-2	4
*H	5	UNIT HEAT 1-UH-3	12	0.7	20	1	20	1	0.7	12	UNIT HEAT 1-UH-4	6
*H	7	UNIT HEAT 1-UH-5	12	0.7	20	1	20	1			SPARE	8
	9	RECEPTACLE	10	0.2	20	1	20	1	0.2	10	RECEPTACLE	10
	11	RECEPTACLE	10	0.2	20	1	20	1	0.2	10	RECEPTACLE	12
	13	RECEPTACLE	10	0.2	20	1	20	1	0.2	_10	PECEPTACIE	1 4
	15	RECEPTACLE	10	0.2	20	1	20	1 (0.5	12	VAV CONTROL POWER	16
	17	SPARE			20	1	20	1			SPARE	18

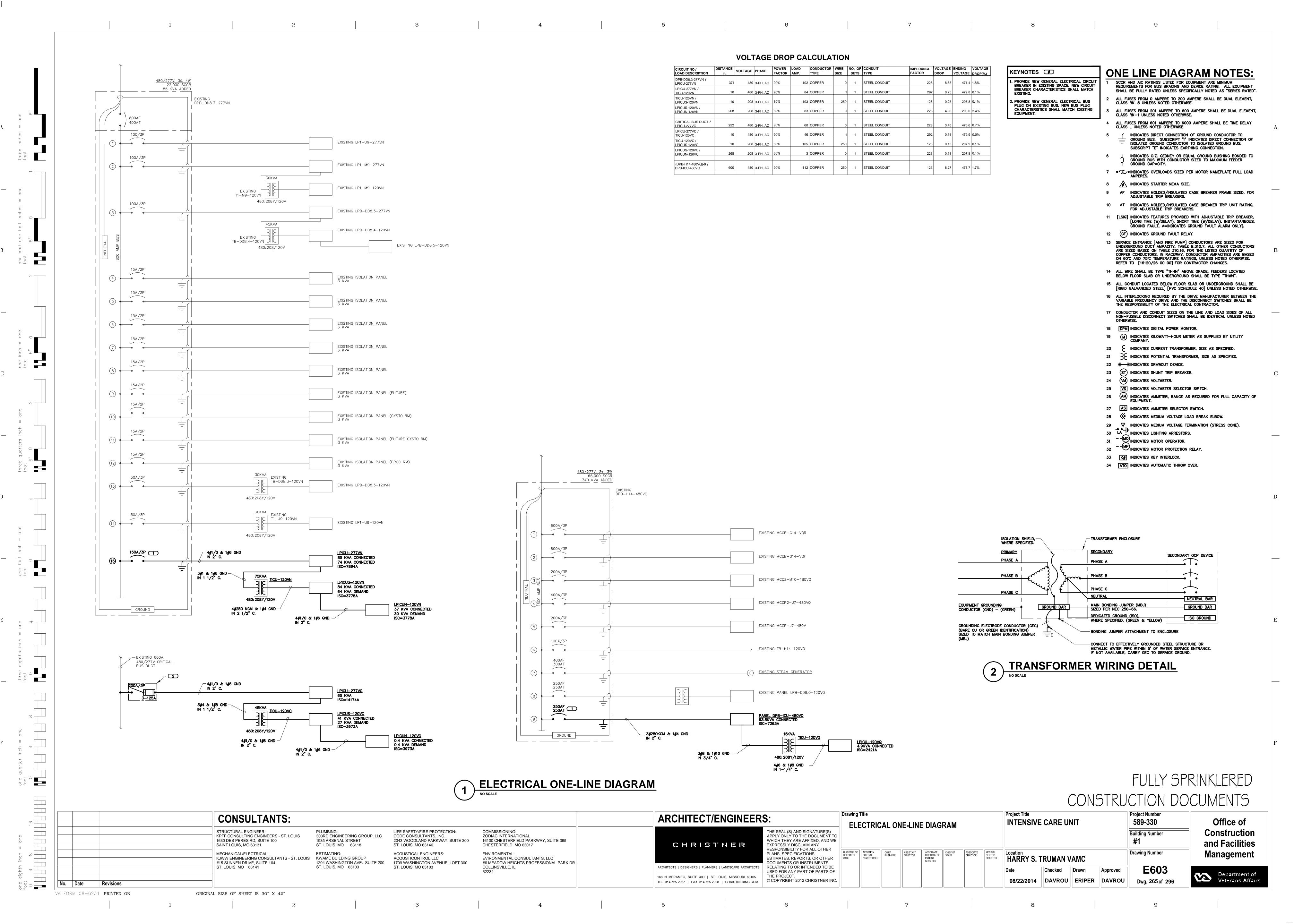
TVDE	BOLT-ON	PAIN	EL INA	AME:		LPIC	UN.	-12UV		IAIN:	CONNECTED 39.0 KVA	Ĺ
				00110	N	TDAL		1			1307(31 05	_
MOUNTING:				SOLID					_	LTS:	208Y / 120	_
	LPICU-277VN VIA TICU-120VN			GROU	AD B	US				ASE:	3	_
	10,000								VV	IRE:	4	_
NOTES:		LAMBE.		DDEAL	·==	Inne			\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			01/2
CKT				BREAK		BREAK		LOAD	WIRE			CK
NO.	LOAD DESCRIPTION	SIZE	KVA	AMP	Р	AMP	P	KVA	SIZE		LOAD DESCRIPTION	NO
1 6	RECEPTS	10	1.2	20	1	20	1	0.6	10	3	RECEPTS	2
3	VENDING MACHINE	12	1.0	20	1	20	1	1.0	12		VENDING MACHINE	4
5 5	RECEPTS (1-TV)	12	1.3	20	1	20	1	1.4	12	7	RECEPTS	6
7 2	RECEPTS, 4 SENSORS	12	0.6	20	1	20	1	1.8	12	1	RECEPT (TREADMILL)	8
9 2 11 3	RECEPTS (2-FANS)	12	1.0 0.9	20	1	20 20	1	1.8 1.5	12	1	RECEPT (TREADMILL)	10
13 1	RECEPTS (1-TV)	12	1.0	20	1	20	1	1.0	12	5	RECEPT (MICROWAVE)	14
15 3	RECEPT (U.C. REFRIGERATOR)	12	0.6	20	1	20	1	0.6	12	3	RECEPTS	16
17 6	RECEPTS	10	1.2	20	1	15	1	1.2	12	6	RECEPTS (MAA 4)	18
19 6	RECEPTS (WM-1)	12	1.2	15	1	15	1	1.2	12	6	RECEPTS (WM-1) RECEPTS (WM-1)	20
21 6	RECEPTS (WM-1)	12	1.2	15	1	15	1	1.0	12	5	RECEPTS (WM-1)	22
23 5	RECEPTS (WM-1)	12	1.0	15	1	20	1	1.4	10	7	RECEPTS (WM-2)	24
25 2	RECEPT RECEPT	12	0.4	20	1	20	1	1.6	10	8	RECEPTS (WM-2)	26
27	VENDING MACHINE	12	1.0	20	1	20	1	1.0	12		VENDING MACHINE	28
29 3	RECEPTS	12	0.6	20	1	20	1	1.5	12	1	RECEPT (ICE/WATER DISPENSER)	30
31 3	RECEPTS	12	0.6	20	1	20	1	0.2	12	1	RECEPT	32
33 7	RECEPTS	12	1.4	20	1	20	1	0.2	12	4	RECEPTS	34
35 6	RECEPTS	10	1.2	20	1	20	1	0.2	12	1	RECEPTS (1-TV)	36
37 2	RECEPTS	12	0.4	20	1	20	1	1.0	12	5	RECEPTS	38
39 1	RECEPT	12	0.2	20	1	20	1	0.8	12	4	RECEPTS	40
41	SPARE			20	1	20	1				SPARE	42
43	SPARE			20	1	20	1				SPARE	44
45	SPARE			20	1	20	1				SPARE	46
47	SPARE			20	1	20	1				SPARE	48
49	SPACE										SPACE	50
51	SPACE										SPACE	52
53	SPACE										SPACE	54
55	SPACE										SPACE	56
57	SPACE										SPACE	58
59	SPACE										SPACE	60
61	SPACE										SPACE	62
63	SPACE										SPACE	64
65	SPACE										SPACE	66
67	SPACE										SPACE	68
69	SPACE										SPACE	70
71	SPACE										SPACE	72
73	SPACE										SPACE	74
75	SPACE										SPACE	76
77	SPACE										SPACE	78
79	SPACE										SPACE	80
81	SPACE										SPACE	82
83	SPACE										SPACE	84

		PAN	EL N	AME:		LPIC	UN	-120V	C		CONNECTED 0.4 KVA		
TYPE	E: BOLT-ON								M	1AIN:			
MOUNTING	S: SURFACE			SOLID	NEU	JTRAL]	VO	LTS:			
	1: LPICU-277VC VIA TICU-120VC			GROU				1		ASE:	20017120		
	10,000			0.100				_		/IRE:			
NOTES									•		·		
CKT	··	WIRE	LOAD	BREAK	(FR	BREAK	(FR	LOAD	WIRE			CKT	_
NO.	LOAD DESCRIPTION	SIZE	KVA	AMP	P	AMP	Р	KVA	SIZE		LOAD DESCRIPTION	NO.	
					_	1				_			_
1 1	RECEPT (CRASH CART)	12	0.2	20	1	20	1	0.2	12	3	DOORS	2	_
3	SPARE			20	1	20	1				SPARE	4	_
5	SPARE			20	1	20	1				SPARE	6	_
7	SPARE			20	1	20	1			_	SPARE	8	_
9	SPARE			20	1	20	1				SPARE	10	_
11	SPARE			20	1	20	1			_	SPARE	12	_
13	SPARE			20	1	20	1			-	SPARE	14	_
15	SPARE			20	1	20	1			-	SPARE	16	_
17	SPARE		1	20	1	20	1			-	SPARE	18	_
19	SPARE			20	1	20	1				SPARE	20	_
21	SPARE			20	1	20	1				SPARE	22	_
23	SPARE			20	1	20	1				SPARE	24	_
25	SPARE			20	1	20	1				SPARE	26	_
27	SPARE			20	1	20	1				SPARE	28	_
29	SPARE			20	1	20	1				SPARE	30	_
31	SPARE			20	1	20	1			_	SPARE	32	_
33	SPARE			20	1	20	1				SPARE	34	_
35	SPARE			20	1	20	1				SPARE	36	_
37	SPARE			20	1	20	1				SPARE	38	_
39	SPARE			20	1	20	1				SPARE	40	_
41	SPARE			20	1	20	1			_	SPARE	42	_
43	SPARE			20	1	20	1				SPARE	44	
45	SPARE			20	1	20	1				SPARE	46	
47	SPARE			20	1	20	1				SPARE	48	
49	SPARE			20	1	20	1				SPARE	50	
51	SPARE			20	1	20	1				SPARE	52	
53	SPARE			20	1	20	1				SPARE	54	
55	SPARE			20	1	20	1				SPARE	56	
57	SPARE			20	1	20	1				SPARE	58	
59	SPARE			20	1	20	1				SPARE	60	
61	SPARE			20	1	20	1				SPARE	62	_
63	SPARE			20	1	20	1				SPARE	64	-
65	SPARE			20	1	20	1				SPARE	66	_
67	SPARE			20	1	20	1				SPARE	68	
69	SPACE				<u> </u>	+	<u> </u>				SPACE	70	-
71	SPACE										SPACE	72	-
73			1				+			\vdash		74	-
75	SPACE					1	1	-		-	SPACE	76	-
77	SPACE		-			1	1				SPACE	78	_
	SPACE		+		-		-			\vdash	SPACE		_
79	SPACE		-		-		-			-	SPACE	80	_
81	SPACE		1		-	-				-	SPACE	82	_
83	SPACE										SPACE	84	

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title ELECTRICAL SCHEDULES	Project Title INTENSIVE CARE UNIT	Project Number 589-330	Office of
		STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	APPLY ONL WHICH THE CHRISTNER EXPRESSLY	. (S) AND SIGNATURE(S) NLY TO THE DOCUMENT TO HEY ARE AFFIXED, AND WE LY DISCLAIM ANY	LLEOTRIOAL GOTTLEGELG		Building Number #1	Construction and Facilities
		MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS #15 SUNNEN DRIVE, SUITE 104 ST. LOUIS, MO 63141	ESTIMATING: KWAME BUILDING GROUP 1204 WASHINGTON AVE. SUITE 200 ST. LOUIS, MO 63103	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300 ST. LOUIS, MO 63103	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. COLLINSVILLE, IL	PLANS, SPE ESTIMATES DOCUMENT	BIBILITY FOR ALL OTHER PECIFICATIONS, ES, REPORTS, OR OTHER NTS OR INSTRUMENTS ES TO OR INTENDED TO BE	DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER CHIEF DIRECTOR DIRECTOR OF PATIENT SERVICES CHIEF OF STAFF DIRECTOR DIRECTOR DIRECTOR CONTROL CENTER DIRECTOR DIRECT	Location HARRY S. TRUMAN VAMC	Drawing Number	Management
1 1/14/15 No. Date	Amendment #4 Revisions				62234	USED FOR 168 N MERAMEC, SUITE 400 ST. LOUIS, MISSOURI 63105 THE PROJE	R ANY PART OF PARTS OF JECT. JECT 2012 CHRISTNER INC.		Date Checked Drawn Approved DAVROU ERIPER DAVROU	E602 Dwg. 264 of 296	Department of Veterans Affairs

2 5 7



1. "1/T401" INDICATES DETAIL NUMBER / SHEET NUMBER. 2. "SC-MPP-1" INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM TAG. 3. A SLASH IS USED BETWEEN TWO SUBSCRIPTS ie: A/H 4. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS OF AND BASIS OF DESIGN MANUFACTURERS FOR ALL DEVICES. "1" INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH. 6. FROM FINISHED FLOOR TO CENTERLINE MOUNTING SUBSCRIPT KEY: TECHNOLOGY OUTLETS MOUNT ABOVE COUNTER (+6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH) MOUNT IN LAB CASEWORK MOUNT HORIZONTAL ABBREVIATION KEY: TELECOMMUNICATIONS CONTRACTOR SECURITY CONTRACTOR AUDIO/VISUAL CONTRACTOR NURSE CALL CONTRACTOR ELECTRICAL CONTRACTOR MECHANICAL CONTRACTOR GENERAL CONTRACTOR ABOVE FINISH FLOOR BELOW FINISHED CEILING CONDUIT TYP TYPICAL MOUNTING HEIGHT ABOVE FINISHED FLOOR NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE) — — NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG NEW WORK BY OTHERS, AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE) ---- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE) 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE U.F.A.S. (UNIFORM FEDERAL ACCESSIBILITY STANDARDS). 2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE. 3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. 4. FLUSH MOUNT ALL INFORMATION OUTLET LOCATIONS AT +18" FROM FINISHED FLOOR (CENTERLINE DIMENSION) UNLESS OTHERWISE NOTED. INFORMATION OUTLET LOCATIONS MAY BE SURFACE MOUNTED WHERE ASSOCIATED CONDUIT IS SPECIFIED TO BE EXPOSED. 5. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO COMMENCING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, THIS CONTRACTOR SHALL ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT. 6. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR. 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS. 8. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION 9. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS 10. FIRESTOPPING REFERS TO THE ITEMS SPECIFICALLY ADDRESSED IN DIVISION 26, 27, AND 28 DOCUMENTS. REFER TO THE INDIVIDUAL SPECIFICATION SECTIONS FOR INFORMATION SPECIFIC TO FIRESTOPPING.

one eighth inch = one foot 0 + 8 = 16

GENERAL TECHNOLOGY NOTES:

TECHNOLOGY INSTALLATION NOTES:

		FURNISHED	INSTALLED	
ITEM	SHOWN ON	BY	BY	NOTES:
INFORMATION OUTLET ROUGH-IN (REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION)	T-SERIES	E.C.	E.C.	1
INFORMATION OUTLET FACEPLATES, JACKS AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4, 5
TECHNOLOGY SYSTEMS ROUGH-IN	T-SERIES	T.C.	E.C.	1, 3, 4
TECHNOLOGY EQUIPMENT, CABLING, & TERMINATIONS	T-SERIES	T.C.	T.C.	10
SECURITY SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1, 3, 4
SECURITY EQUIPMENT, CABLING, & TERMINATIONS	T-SERIES	S.C.	S.C.	11, 12
AUDIO/VISUAL SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1, 3, 4
AUDIO/VISUAL EQUIPMENT, CABLING, & TERMINATIONS	T-SERIES	T.C.	T.C.	
NURSE CALL ROUGH-IN	T-SERIES	NC.C	E.C.	1, 3, 4
NURSE CALL EQUIPMENT, CABLING, & TERMINATIONS	T-SERIES	NC.C	NC.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY)	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5
FIRESTOPPING	N/A	E.C.	E.C.	9
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6
BONDING SYSTEM FOR TECHNOLOGY SYSTEM	T-SERIES	E.C.	E.C.	7
CONNECTION OF TECHNOLOGY GROUND SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	8
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
J-HOOKS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5
TELECOMMUNICATIONS TERMINAL BOARD (TTB)	T-SERIES	T.C.	T.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

- LOCATIONS OF TECHNOLOGY (INCLUDES TELECOMMUNICATIONS, PAGING, SYNCHRONIZED CLOCK, INTERCOM, NURSE CALL, AND SECURITY) ROUGH-INS SHALL BE INDICATED BY THE ASSOCIATED DEVICE SYMBOLS ON THE CONTRACT DOCUMENTS. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON DRAWING
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS OR
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN
- 4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S, AV.C.'S, NC.C'S, and S.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S, AV.C.'S, NC.C'S, and S.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- 5. UNLESS TRADE RULES DICTATE OTHERWISE. 6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUNDING BUSBARS, AND TERMINATIONS FOR THE COMPLETE GROUNDING SYSTEM REQUIRED BY THE SPECIFICATIONS INCLUDING CONNECTORS TO THE LUGS PROVIDED ON THE TECHNOLOGY EQUIPMENT.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE GROUNDING RISER.
- FIRESTOPPING REFERS TO THE ITEMS SPECIFICALLY ADDRESSED IN DIVISION 26, 27, AND 28 DOCUMENTS. REFER TO THE INDIVIDUAL SPECIFICATION SECTIONS
- 10. TECHNOLOGY INCLUDES BUT IS NOT LIMITED TO VOICE / DATA / CATV STRUCTURED CABLING, PAGING, SYNCHRONIZED CLOCKS, INTERCOM, NURSE CALL, AND
- 11. SECURITY SYSTEMS INCLUDE BUT ARE NOT LIMITED TO ACCESS CONTROL AND VIDEO SURVEILLANCE.

FOR INFORMATION SPECIFIC TO FIRESTOPPING.

12. ALL HORIZONTAL AND BACKBONE VOICE/DATA CABLING FOR ALL SYSTEMS SHALL BE PROVIDED, INSTALLED, TERMINATED, TESTED, AND CERTIFIED BY THE T.C.. CONNECTION TO THE SYSTEM TO BE PROVIDED BY THE LISTED "FURNISHED BY" CONTRACTOR.

0)/M/D/O	T40	DECORPTION	NOTEO
SYMBOL # # V	TAG <u>SC-IO-W</u>	INFORMATION OUTLET (WALL), COMBINATION TELEPHONE/DATA COMMUNICATION	NOTES 1
# \P	SC-IO-W	INFORMATION OUTLET (WALL), DATA COMMUNICATION ONLY	1
W	<u>SC-IO-W</u>	INFORMATION OUTLET (WALL), TELEPHONE COMMUNICATION ONLY, WALL PHONE	1
TV	SC-IO-W	INFORMATION OUTLET (WALL), DATA COMMUNICATION	1
₩AP	SC-WAP-C	INFORMATION OUTLET (CEILING), DATA COMMUNICATION	1
©#	PA-S-C	ONLY, WIRELESS ACCESS POINT FACILITY PAGING SPEAKER (CEILING)	4
(SP1)	AV-SP1-C	AUDIO / VISUAL SPEAKER (CEILING) - TYPE 1	
WP1	AV-WP1-W	AV WALLPLATE (WALL) - TYPE 1	
CP1	AV-CP1-W	AV CONTROL PANEL (WALL) - TYPE 1	
M T	<u>CC-C-W</u>	SYNCRONIZED CLOCK SYSTEM CLOCK; LETTER INDICTES AS FOLLOWS; M = MOUNT C - CEILING W - WALL S - SURFACE F - FLUSH	
		T=TECHNOLOGY/TYPE A1 - ANALOG SINGLE FACE A2 - ANALOG DOUBLE FACE D1 - DIGITAL SINGLE FACE D2 - DIGITAL DOUBLE FACE	
*N	NC-D-C NC-DZ-C	NURSE CALL STATION D = CORRIDOR DOME LIGHT, MOUNTED AT FINISHED CEILING DI = AUXILIARY INTERSECTIONAL DOME LIGHT, MOUNTED AT FINISHED CEILING	
N [*]	NC-DTY-W NC-ET-W NC-ES-W NC-SA-W NC-CB-W NC-TV-W NC-ER-W NC-SC-W NC-N-W NC-BC-W	NURSE CALL STATION D = DUTY STATION, MOUNTED AT +60" E = EMERGENCY STATION, MOUNTED AT +36" FOR TOILETS E = EMERGENCY STATION, MOUNTED AT +72" FOR SHOWERS A = STAFF ASSIST STATION, MOUNTED AT +48" C = CODE BLUE STATION, MOUNTED AT +48" V = TELEVISION AUDIO AND CONTROL INTERFACE JACK, MOUNTED AT +96" R = AUXILIARY INPUT JACK, MOUNTED AT +18" X = STANDALONE CONTROLLER 1 = SINGLE PATIENT STATION B = BED CONNECTOR, MOUNTED AT +18"	
NCS	NC-MAS	NURSE CALL - MASTER STATION	
CSS	AC-CSS	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	2
□ # #	AC-CR1	CARD ACCESS READER; LETTER INDICATES AS FOLLOWS; M = MOUNT C - CEILING D - DESK F- FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	2
#		T = TECHNOLOGY/TYPE B - BARCODE F - ELEVATOR FLOOR CALL H - ELEVATOR HALL CALL M - MAG STRIP P = PROXIMITY S - SMART CARD T TOKEN CARD ACCESS READER WITH KEYPAD; LETTER INDICATES	2
#	AC-CR2	AS FOLLOWS; M = MOUNT C - CEILING D - DESK F- FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL T = TECHNOLOGY/TYPE	2
		B - BARCODE F - ELEVATOR FLOOR CALL H - ELEVATOR HALL CALL M - MAG STRIP P = PROXIMITY S - SMART CARD T TOKEN	
###	AC-EDH	ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL T = TECHNOLOGY/TYPE	2
		D - DEADBOLT H - HYBRID L - LATCH SET M - MAGNATIC S - STRIKE	
	AC-REX	REQUEST TO EXIT; LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING W - WALL M - MULLION P - PEDESTAL F - FLUSH S - SURFACE	2
		T = TECHNOLOGY/TYPE M - MANUAL I - PASSIVE INFRARED	
- -	AC-DC	DOOR CONTACT; LETTER INDICATES AD FOLLOWS: M = MOUNT S - SURFACE R - RECESSED T = TECHNOLOGY/TYPE	2
		M = MAGNETIC REED	
J	<u>AC-JB</u>	JUNCTION BOX	
□ vs	IC-IM1	INTERCOM MASTER STATION	
rth ^v	IC-l1	INTERCOM STATION	
#	<u>VS-CAM</u>	VIDEO SURVEILLANCE CAMERA	3

TECHNOLOGY SYMBOL LIST

TELECOM ROOM REFERENCES TELECOM | DETAIL/SHEET | FLOORPLAN | ARCH ROOM | ROOM REFERENCE REFERENCE NUMBER SC-HC-1 1/T401 1/TC104 G320

GENERAL NOTES.

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE TECHNOLOGY SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPES KEY FOR NEW, EXISTING TO REMAIN, AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

TECHNOLOGY SYMBOL NOTES:

- "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T601 FOR ADDITIONAL INFORMATION.
- REFER TO ACCESS CONTROL SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.
- "#" INDICATES UNIQUE CAMERA NUMBER FOR THAT CAMERA LOCATION. REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON T602 AND CAMERA TYPE SCHEDULE ON T602 FOR ADDITIONAL INFÓRMATION.
- . "#" INDICATES ZONE ASSIGNMENT.

	FULLY	SPRINK	LERED
CONSTRL	JCTION	DOCU	MENTS

	CONSULTANTS:				ARCHITECT/ENGINEERS	•	Drawing Title TECHNOLOGY COVER SHEET	Project Title INTENSIVE CARE UNIT	Project Number 589-330	Office o
	STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	CHRISTNER	THE SEAL (S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND WE EXPRESSLY DISCLAIM ANY			Building Number #1	Construct
	MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS #15 SUNNEN DRIVE, SUITE 104	ESTIMATING: KWAME BUILDING GROUP 1204 WASHINGTON AVE. SUITE 200 ST. LOUIS, MO 63103	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR.	ADQUITEGES L DESIGNEDS L DI ANNEDS L L'ANDSCADE ADQUITEGES	RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE	DIRECTOR OF SPECIALTY CARE INFECTION CONTROL PRACTITIONER CHIEF ENGINEER INFECTOR IN	Location HARRY S. TRUMAN VAMC	Drawing Number	Managen
ate Revisions	ST. LOUIS, MO 63141	31. LOUIS, MO 63103	ST. LOUIS, MO 63103	COLLINSVILLE, IL 62234	168 N MERAMEC, SUITE 400 ST. LOUIS, MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM	USED FOR ANY PART OF PARTS OF THE PROJECT. © COPYRIGHT 2012 CHRISTNER INC.		Date Checked Drawn A 08/22/2014 MARWIT DAVLAR	T000 DAVROU Dwg. 266 of 296	CD

1 2 8 9

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE. TAG APPROVED MANUFACTURERS INFORMATION OUTLET, WALL MOUNT. 2, 4, OR 6-PORT FACEPLATE AS INDICATED ON INFORMATION OUTLET SCHEDULE ON DRAWING T601. <u>SC-10-W</u> "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T601 FOR DESCRIPTION OF EACH CONFIGURATION AND FOR PIN CONFIGURATION OF "W" INDICATES WALL HUNG PHONE LOCATION. PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF WITH STAINLESS STEEL FACEPLATE AND MATING LUGS. INSTALL INFORMATION OUTLET IN A 4" SQUARE 2-1/8" DEEP BACKBOX WITH A SINGLE GANG PLASTER RING AND A 1" EMT CONDUIT STUBBED TO CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING AT HEIGHT OF ASSOCIATED CABLE TRAY. REFER TO 1/T601 FOR ROUGH-IN DETAIL. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. 2 SC-WAP-C INFORMATION OUTLET, CEILING MOUNT. INTENDED TO PROVIDE CONNECTIVITY FOR FUTURE WIRELESS ACCESS POINT. 2-PORT FACEPLATE AS INDICATED ON INFORMATION OUTLET SCHEDULE ON DRAWING T601. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE FLOOR PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T601 FOR DESCRIPTION OF EACH CONFIGURATION AND FOR PIN CONFIGURATION OF INSTALL INFORMATION OUTLET IN A 4" SQUARE 2-1/8" DEEP BACKBOX MOUNTED TO CLOSEST STRUCTURAL ELEMENT (EX. COLUMN) AND EQUIPPED WITH A SINGLE GANG PLASTER RING AND A DELUXE CORD GRIP FOR STRAIN RELIEF ON UTP CABLE. REFER TO 2/T601 FOR ROUGH—IN DETAIL. PROVIDE 20' COIL OF UTP CABLE AT WIRELESS OUTLET LOCATION. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. CABLE TRAY, WIRE MESH TYPE. 2" LOADING DEPTH X 12" WIDTH, T-WELDED TOP EDGES, SHAPED CROSSWRE WITH FLAT SURFACE FOR CABLE SUPPORT, >50 LBS/FT LOAD RATING, MATTE BLACK FINISH. PROVIDE COMPLETE WITH ALL NECESSARY FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER FOR CEILING-MOUNTED APPLICATIONS AND Z-BRACKETS FOR WALL MOUNTED APPLICATIONS, 10' MAXIMUM CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. SC-CPW-1

FIRE-RATED PATHWAY. HEAVY-GAUGE GALVANIZED STEEL RACEWAY LINED WITH INTUMESCENT MATERIAL, 3" WIDE X 3" HIGH X 10-1/2" LONG. FIELD-GANGABLE WITH MULTIPLES OF THE SAME PART NUMBER. WHERE QUANTITY IS NOT SPECIFIED ON FLOOR PLANS, PROVIDE QUANTITY TO MATCH CAPACITY OF ASSOCIATED CABLE TRAY. REFER TO 3/T601 FOR ADDITIONAL INFORMATION. 5 SC-HC-# HORIZONTAL CROSS-CONNECT. REFER TO PLANS FOR LOCATIONS AND LAYOUT. SC-TTB-1 TELECOMMUNICATIONS TERMINAL BOARD. 4' X 8' X 3/4" A-C GRADE FIRE-RATED PLYWOOD. EXPOSED SIDE SHALL BE SMOOTH. MOUNT VERTICALLY WITH TOP OF PLYWOOD AT 8'6" A.F.F. PRODUCT STAMP MUST REMAIN VISIBLE. SC-LR-1 LADDER RACK. TUBULAR STEEL CONSTRUCTION, 18" WIDTH, 1.5" X .375" SIDE STRINGERS, 1" X 0.5" CROSS STRINGERS, >130 LBS/FT LOAD RATING, BLACK RUST RESISTANT ENAMEL FINISH. UL LISTED. INSTALL WITH ALL NECESSARY ADAPTERS, SUPPORT HARDWARE, AND FITTINGS, TO INCLUDE RADIUS DROPS. REFER TO 4/T601 FOR ADDITIONAL INFORMATION. REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT OR EXPOSED. 8 SC-ER-1 EQUIPMENT RACK. 84" HIGH, STANDARD 19" MOUNTING SPACING WITH DOUBLE-SIDE DRILLED 12-24 TAPPED MOUNTING HOLES SPACED PER EIA/TIA STANDARDS, PROVIDES (45) 1.75" MOUNTING SPACES, >1500 LB LOAD RATING, ALUMINUM CONSTRUCTION, BLACK FINISH. MEETS EIA-310-D REQUIREMENTS, UL PROVIDE COMPLETE WITH TWO (2) TWO-SIDED VERTICAL WIRE MANAGERS PER RACK, EACH WITH MINIMUM 6" X 6" CAPACITY FRONT AND REAR, AND WITH LADDER RACK CONNECTION HARDWARE ACCESSORIES AND RADIUS DROP LADDER 9 SC-PS-1 RACK-MOUNT POWER STRIP. 125VAC/60Hz, 15-AMP RATING, (10) REAR RECEPTACLES, INTERNAL CIRCUIT BREAKER, 10' LINE CORD, MOUNTS HORIZONTALLY IN A STANDARD EIA/TIA 19" RACK. U.L. LISTED. REQUIRES ONE (1) 1.75" MOUNTING SPACE. 10 SC-GND-1 WALL-MOUNT GROUND BAR. 4" H X 12" L X 1/4" D COPPER, ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. PROVIDE UNIT CONFIGURED WITH SIXTEEN (16) SETS OF 5/16" HOLES SPACED 5/8" ON CENTER TO ACCOMMODATE "A" SPACED TWO-HOLE COMPRESSION LUGS AND THREE (3) SETS OF 7/16" HOLES SPACED 1" ON CENTER TO ACCOMMODATE "C" SPACED TWO-HOLE COMPRESSION LUGS. ANSI/EIA/TIA-607 AND BICSI COMPLIANT. UL LISTED. REFER TO 5/T601 FOR ADDITIONAL INFORMATION. 11 | <u>SC-GND-2</u> | RACK-MOUNT GROUND BAR. 3/4" H X 19"W X 3/16" D COPPER, (8) 6-32 TAPPED LUG MOUNTING HOLES, (4) 5/16" UNTAPPED HOLES. BOND TO NEAREST <u>SC-GND-1</u>, REFER TO 2/T505 FOR ADDITIONAL INFORMATION. 12 SC-MPP-1 MODULAR PATCH PANEL. 48 MODULAR CATEGORY 6 RJ-45 TERMINATIONS, PORT IDENTIFICATION NUMBERS. KIT INCLUDES COLOR CODING INSERTS AND LABEL HOLDERS. MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK. U.L. LISTED. REQUIRES TWO (2) 1.75" MOUNTING SPACES. VOICE PATCH PANEL. WALL MOUNTED 110-TYPE, 300-PAIR. PROVIDE COMPLETE WITH MOUNTING LEGS, C-5 TERMINATION CLIPS, AND ALL NECESSARY ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE COMPLETE WITH 110-STYLE JUNE WIRE MANAGEMENT TROUGH ABOVE AND BELOW EACH 300-PAIR 110-BLOCK. 14 SC-FDC-1 OPTICAL FIBER DISTRIBUTION CABINET. METAL CONSTRUCTION, ACCOMMODATES 4 MODULAR CONNECTOR PANELS, INTEGRATED FRONT CABLE MANAGEMENT TROUGH, UNIVERSAL CABLE CLAMP, LOCKABLE. REQUIRES TWO (2) 1.75" MOUNTING SPACES. PROVIDE COMPLETE WITH NECESSARY QUANTITY OF 12-STRAND SIMPLEX ST CONNECTOR PANELS TO SERVE TERMINATED FIBER OPTIC CABLES. INSTALL CONNECTOR PANEL BLANKS IN UNUSED CONNECTOR PANEL PORTS. 15 | SC-HWM-2 | RACKMOUNT HORIZONTAL CABLE MANAGER. DUCT-TYPE WITH FLEXIBLE FINGERS. MINIMUM 3" X 3" CAPACITY FRONT AND 2" X 5" CAPACITY REAR. REMOVABLE COVERS. REQUIRES TWO (2) 1.75" MOUNTING SPACES. 16 SC-TVE-1 INDOOR PASSIVE BROADBAND RF LINE EQUALIZER. 5 - 860 MHz FREQUENCY RANGE, 75 OHM IMPEDANCE, MAXIMUM INSERTION LOSS OF 0.5 dB, F-TYPE FEMALE CONNECTORS. PROVIDE WITH EQ VALUE AS NECESSARY TO COMPENSATE FOR FIELD-MEASURED CABLE INDOOR WALL-MOUNTED BI-DIRECTIONAL BROADBAND RF DISTRIBUTION AMPLIFIER. 54 - 860 MHz FREQUENCY RANGE FORWARD, 5 - 36 MHz FREQUENCY RANGE RETURN, 75 OHM IMPEDANCE, 10 dB GAIN CONTROL RANGE, MAXIMUM OUTPUT OF +40 dBmv, +/- 1.5 dB FLATNESS, 10 dB VARIABLE SLOPE CONTROL RANGE, MAXIMUM NOISE FIGURE OF 8.5 dB, F-TYPE FEMALE CONNECTORS, FIELD-CONFIGURABLE ACTIVE OR PASSIVE RETURN, EQUIPPED WITH TEST PORT, ACCEPTS PLUG-IN EQUALIZER AND ATTENUATOR ACCESSORIES FROM SAME MANUFACTURER. INDOOR BROADBAND RF DIRECTIONAL COUPLER / TAP. TWO-WAY, 5 - 1000 MHz FREQUENCY RANGE, 75 OHM IMPEDANCE, 22 dB MINIMUM ISOLATION BETWEEN OUTPUT PORTS, F-TYPE FEMALE CONNECTORS, L-STYLE CONFIGURATION WITH TAP OUTPUT CONNECTORS ORIENTED PERPENDICULAR TO BACKPLANE OF DEVICE, DIE-CAST HOUSING, SOLDER BACK, SCREW-TYPE GROUND LUG TERMINAL, INTEGRAL MOUNTING TABS. ISOLATION OUTPUTS AND THRU-LINE LOSSES WILL VARY WITH TAP RATING AND PORT 18 <u>SC-TVT-1</u> QUANTITY. PROVIDE WITH VALUES AND PORT QUANTITY AS REQUIRED BY CONTRACTOR'S 19 (NOT SHOWN TERMINATOR. 75 OHM, F-TYPE MALE CONNECTION. FURNISH AND INSTALL (1) ON PLANS)

TERMINATOR ON EACH UNUSED SPLITTER AND/OR TAP PORT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

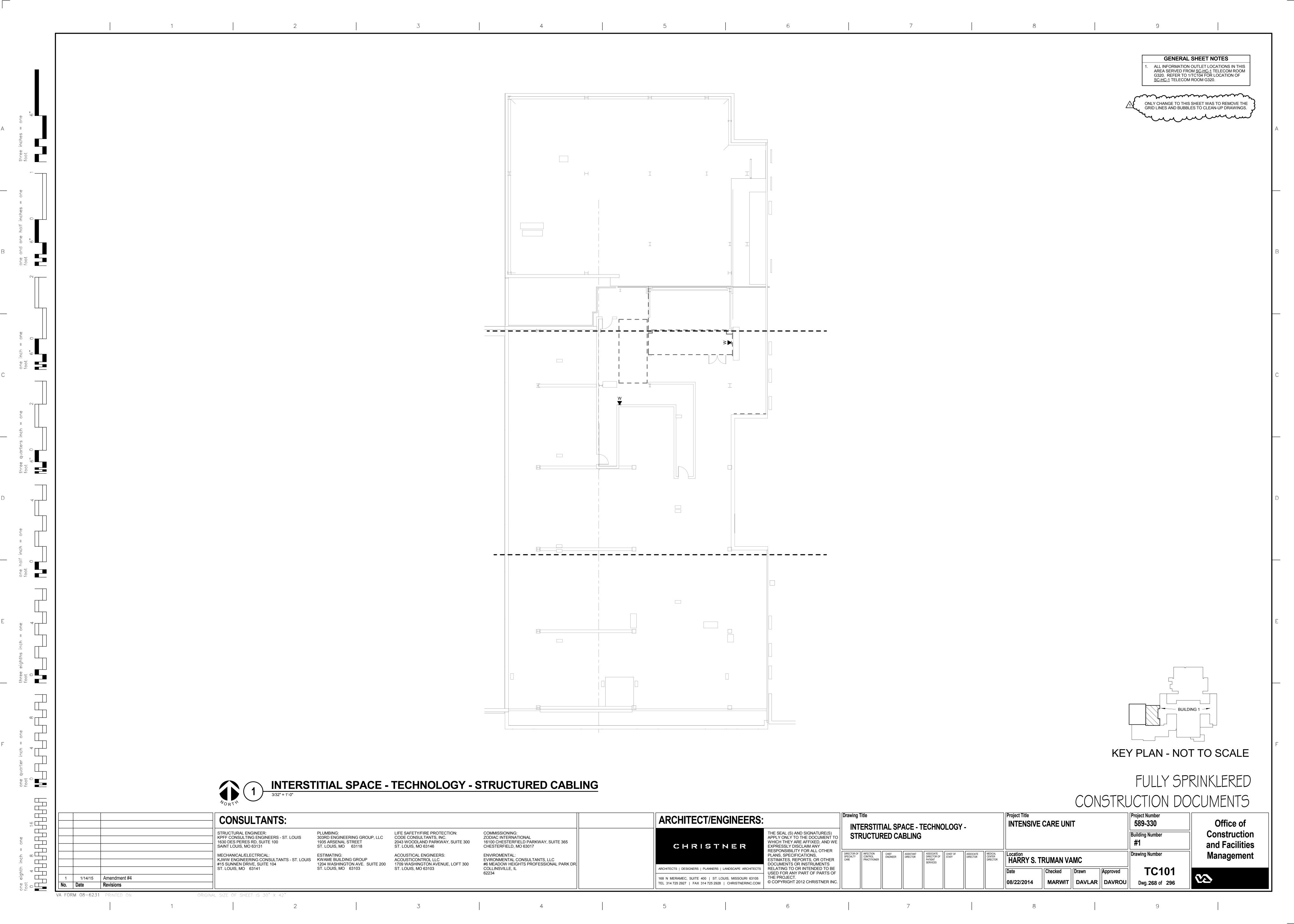
VA FORM 08-6231 **PRINTED ON**

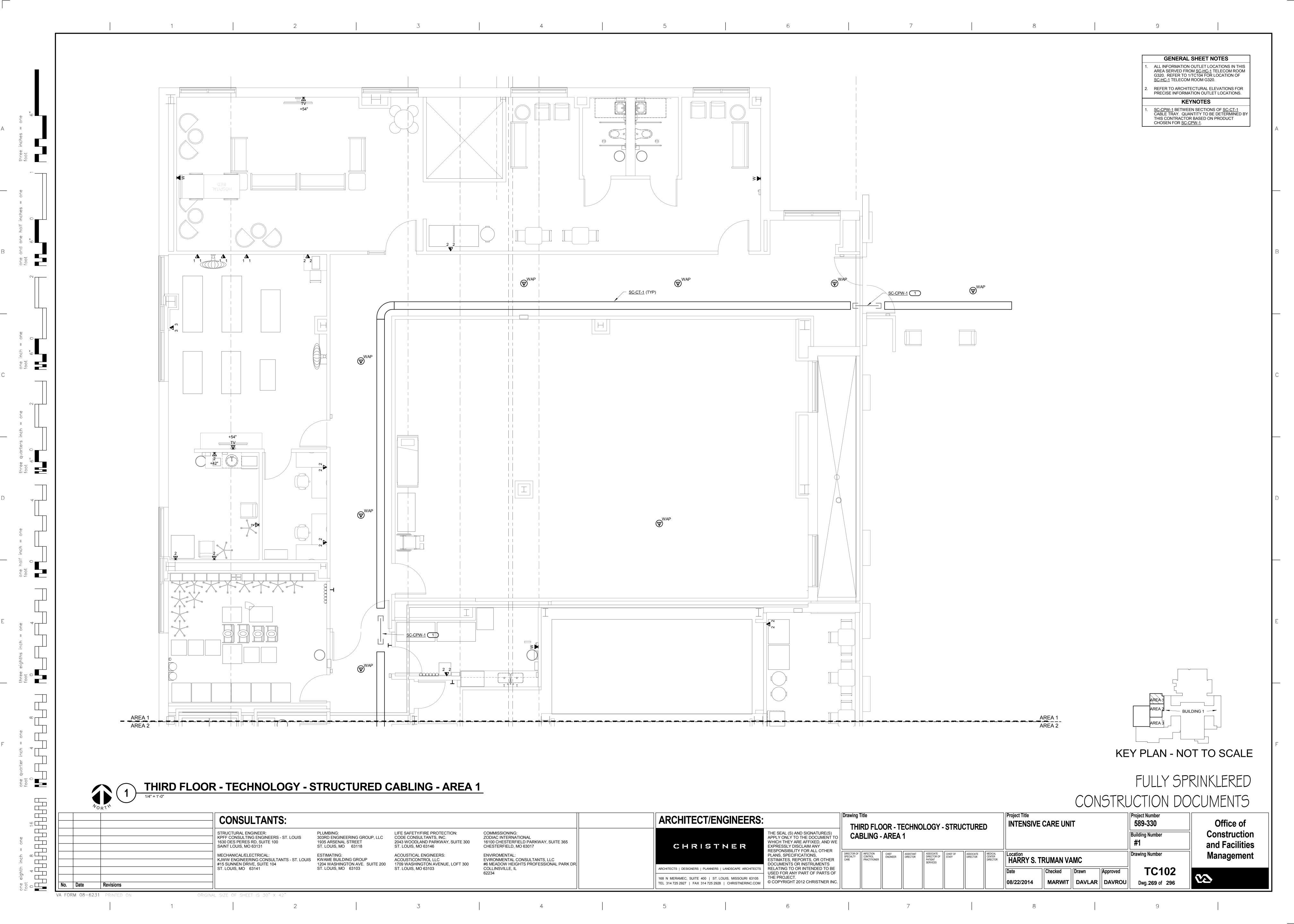
NO.	TAG	DESCRIPTION	APPROVED MANUFAC
20	PA-S-C	PAGING SPEAKER, CEILING MOUNTED. PRE-ASSEMBLED BAFFLE WITH WHITE PERFORATED STEEL GRILLE AND SPEAKER ASSEMBLY, EQUIPPED WITH 8" LOUDSPEAKER WITH 10-OUNCE MAGNET, UNIVERSAL MATCHING TRANSFORMER FOR 25 VOLT AND 70 VOLT SYSTEMS WITH A MINIMUM OF FIVE SECONDARY TRANSFORMER TAPS, AND RECESSED VOLUME CONTROL. 90-12,000 Hz FREQUENCY RANGE, 4 WATTS PROGRAM RATING. PROVIDE COMPLETE WITH MATCHING BACK BOX AND TILE BRIDGE. REFER TO 2/T502 FOR CABLING REQUIREMENTS. FLUSH MOUNT IN CEILING TILES.	•
21	PA-PTS-1	PAGING TERMINAL STRIP CONNECTORS. RUGGED BASE WITH SCREW HOLES FOR MOUNTING, ACCEPTS 22 AWG TO 14 AWG WRES, CORROSION—RESISTANT TERMINATION SURFACE, RATED FOR UP TO 150 VOLTS AND 20 AMPS. PROVIDE COMPLETE WITH JUMPER TAB ACCESSORIES. PROVIDE WITH SUFFICIENT QUANTITY OF CONNECTIONS FOR ASSOCIATED TERMINATED WIRING.	•
22	AC-CSS	ACCESS CONTROL SECURITY SYSTEM. SYMBOL INDICATES THAT DOOR HAS SECURITY FUNCTIONALITY, REFER TO ACCESS CONTROL SCHEDULE ON DRAWING T602 FOR COMPLETE REQUIREMENTS FOR EACH DOOR. REFER TO SPECIFICATION SECTION 28 13 11 FOR COMPLETE INFORMATION.	
23	AC-CR1	ACCESS CONTROL CREDENTIAL READER. PROXIMITY, MULTICOLOR LED, INTERNAL OR HOST CONTROL OF THE LED. CREDENTIAL READERS SHOWN ON FLOOR PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 11 FOR COMPLETE INFORMATION.	HID RP40 NO SUBSTITUTIONS
24	AC-CR2	ACCESS CONTROL CREDENTIAL KEYPAD READER. PROXIMITY, MULTICOLOR LED, INTERNAL OR HOST CONTROL OF THE LED. CREDENTIAL READERS SHOWN ON FLOOR PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 11 FOR COMPLETE INFORMATION.	HID RPK40 NO SUBSTITUTIONS
25	AC-EDH	ACCESS CONTROL ELECTRIFIED DOOR HARDWARE. FURNISHED AND INSTALLED BY OTHERS, CABLING AND CONNECTION TO ELECTRONIC ACCESS CONTROL SYSTEM PANEL BY THIS CONTRACTOR. COORDINATE CONNECTIONS AND TESTING WITH ON—SITE DOOR CONTRACTOR.	•
26	<u>AC-REX</u>	ACCESS CONTROL REQUEST TO EXIT DEVICE. WHERE SPECIFIED AS CONNECTION TO ELECTRIFIED DOOR HARDWARE ON ACCESS CONTROL SCHEDULE IN DRAWING T602: INTEGRAL PART OF ELECTRIFIED DOOR HARDWARE FURNISHED AND INSTALLED BY OTHERS. CABLING AND CONNECTION BY THIS CONTRACTOR. COORDINATE CONNECTIONS AND TESTING WITH ON—SITE DOOR CONTRACTOR. WHERE SPECIFIED AS MOTION SENSING PIR IN ACCESS CONTROL SCHEDULE ON	•
		DRAWING T602: MOTION SENSING PIR REQUEST TO EXIT DEVICE. ADJUSTABLE COVERAGE PATTERN OF 8' X 10' WHEN MOUNTED AT A HEIGHT OF 7.5 FEET. (2) FORM—C CONTACTS RATED FOR 1 AMP EACH AT 30 VOLTS DC, ADJUSTABLE LATCH TIME FROM .5 SECOND TO 64 SECONDS. SURFACE—MOUNT OR MOUNTABLE ON STANDARD SINGLE—GANG ELECTRICAL BOX WITH ADAPTOR TRIM PLATE.	
27	AC-DC	ACCESS CONTROL DOOR POSITION SWITCH. CIRCULAR RECESSED TYPE, 3/4" DIAMETER, SPDT CONTACTS, FIELD—CONFIGURABLE AS NORMALLY OPEN OR NORMALLY CLOSED, WIRE LEAD CONNECTIONS. SUPPORTED MINIMUM GAP SIZE SHALL BE 7/8" IN A WOOD DOOR FRAME, 3/8" IN A STEEL DOOR FRAME, AND 5/8" IN A STEEL DOOR FRAME WITH A RARE EARTH MAGNET.	
28	AC-CP-1	ACCESS CONTROL SYSTEM CONTROL PANEL. REFER TO 1/T503 FOR DEVICE CABLING REQUIREMENTS. REFER TO SPECIFICATION SECTION 28 13 11 FOR COMPLETE INFORMATION AND REQUIREMENTS.	LENEL NO SUBSTITUTIONS
29	AC-JB	JUNCTION BOX. SIZE PER REQUIREMENTS LISTED IN PROJECT DOCUMENTS AND PER N.E.C. REFER TO SPECIFICATIONS FOR GENERAL CONSTRUCTION. USE OF THIS SYMBOL DOES NOT INDICATE ALL JUNCTION BOXES REQUIRED FOR THIS CONTRACT ARE SHOWN.	•
30	<u>VS—CAM</u>	VIDEO SURVEILLANCE CAMERA, INDOOR. ANALOG, FIXED, COLOR, MINIDOME. REFER TO CLOSED CIRCUIT (CCTV) TYPE SCHEDULE ON DRAWING T602 AND SPECIFICATION SECTION 28 23 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON DRAWING T602 FOR ROUGH—IN AND INSTALLATION REQUIREMENTS AND ADDITIONAL INFORMATION ON EACH CAMERA LOCATION. REFER TO 2/T503 FOR DEVICE CABLING REQUIREMENTS.	•
31	<u>VS-DVR-1</u>	VIDEO SURVELLANCE DIGITAL VIDEO RECORDER. 16—CHANNEL. PROVIDE COMPLETE WITH MANUFACTURER'S RACK—MOUNT KIT. REFER TO SPECIFICATION SECTION 28 23 00 FOR COMPLETE INFORMATION. REFER TO 2/T503 FOR DEVICE CABLING REQUIREMENTS.	PELCO DX8100 NO SUBSTITUTIONS
32	VS-MON-1	CCTV MONITOR. COLOR, LCD TYPE, 19" DIAGONAL, FREE—STANDING DESKTOP CONFIGURATION. REFER TO SPECIFICATION SECTION 28 23 00 FOR COMPLETE INFORMATION. REFER TO 2/T503 FOR DEVICE CABLING REQUIREMENTS.	PELCO PMCL319A NO SUBSTUTIONS
33	VS-CPS-1	VIDEO SURVELLANCE CAMERA POWER SUPPLY. 16-OUTPUT, 20-AMP CAPACITY. REFER TO SPECIFICATION SECTION 28 23 00 FOR COMPLETE INFORMATION. REFER TO 2/T503 FOR DEVICE CABLING REQUIREMENTS.	PELCO MCS16-20SB NO SUBSTITUTIONS
34	<u>IC–I1</u>	VIDEO INTERCOM SYSTEM DOOR STATION. FLUSH-MOUNTED, VANDAL RESISTANT, STAINLESS STEEL FACEPLATE. INCLUDES CALL BUTTON, COLOR VIDEO CAMERA, MICROPHONE, AND SPEAKER. PROVIDE COMPLETE WITH MANUFACTURER'S BACK BOX ACCESSORY. REFER TO 2/T504 AND SPECIFICATION SECTION 27 51 23 FOR ADDITIONAL REQUIREMENTS.	
35	IC—IM1	VIDEO INTERCOM SYSTEM MASTER STATION. INCLUDES 3.5" COLOR LCD SCREEN, MICROPHONE, SPEAKER, INDIVIDUAL COMMUNICATION CONTROLS FOR 8 DOOR STATIONS, DOOR RELEASE BUTTON, TONE AND VOLUME AUDIO ADJUSTMENTS, AND BRIGHTNESS AND CONTRAST VIDEO ADJUSTMENTS. PROVIDE COMPLETE WITH MANUFACTURER'S DESKTOP MOUNTING ACCESSORY. REFER TO 2/T504 AND SPECIFICATION SECTION 27 51 23 FOR ADDITIONAL REQUIREMENTS.	•
36	IC-CP-1	VIDEO INTERCOM CONTROL PANEL. SUPPORTS UP TO FOUR (4) AUDIO/VIDEO MASTER STATIONS AND UP TO EIGHT (8) AUDIO/VIDEO DOOR STATIONS. PROVIDES 24—VOLT POWER TO MASTER STATIONS AND DOOR STATIONS, ONE (1) DOOR RELEASE RELAY OUTPUT FOR EACH DOOR, AND TWO (2) VIDEO OUTPUTS. REFER TO 2/T504 AND SPECIFICATION SECTION 27 51 23 FOR ADDITIONAL REQUIREMENTS.	•
37	NC-N-W	NURSE CALL SINGLE PATIENT STATION. INCLUDES MICROPHONE, SPEAKER, AND PILLOW SPEAKER CONNECTOR. PROVIDES TWO—WAY AUDIO COMMUNICATION WITH NURSE CALL MASTER STATION VIA INTEGRAL MICROPHONE AND SPEAKER, VIA PILLOW SPEAKER, AND VIA REMOTE INTERCOM FACILITIES ON BOOM. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS. FURNISH COMPLETE WITH MANUFACTURER'S MATCHING PILLOW SPEAKER, AND WITH PULL CORD, INTERCOM, LIGHT CONTROL, AND TV CONTROLS IN WINDOW—SIDE BOOM.	•
		INSTALL IN A 3-GANG 3-1/2" DEEP BACKBOX AT +48" AFF INSIDE PREFABRICATED SERVICE COLUMN BY OTHERS WITH TWO (2) 1" CONDUITS ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING.	
38	NC-CB-W	NURSE CALL CODE BLUE CALL STATION. INCLUDES BLUE PAD PUSH BUTTON LABELED "CODE BLUE" AND CANCEL PUSH BUTTON. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS. INSTALL IN A SINGLE GANG 3-1/2" DEEP BACKBOX AT +48" AFF INSIDE PREFABRICATED SERVICE COLUMN BY OTHERS WITH ONE (1) 3/4" CONDUIT ROUTED	•
39	NC-SA-W	TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILÍNG. NURSE CALL NURSE STAFF ASSIST CALL STATION. INCLUDES GREEN PAD PUSH BUTTON LABELED "STAFF" AND CANCEL PUSH BUTTON. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS.	
		INSTALL IN A SINGLE GANG 3-1/2" DEEP BACKBOX AT +48" AFF WITH ONE (1) 3/4" CONDUIT ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING.	
40	NC-ET-W	NURSE CALL PATIENT ASSIST PULL CORD CALL STATION, TOILET. INCLUDES PULL CORD TYPE SWITCH WITH PULL CORD THAT EXTENDS JUST TO FINISHED FLOOR AND CANCEL PUSH BUTTON. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS.	
41	NC-ER-W	INSTALL IN A SINGLE GANG 3-1/2" DEEP BACKBOX AT +48" AFF WITH ONE (1) 3/4" CONDUIT ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING. NURSE CALL EQUIPMENT RECEPTACLE. INCLUDES TWO (2) 1/4" PHONO-STYLE	
. •		JACKS. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS. FURNISH COMPLETE WITH DUMMY PLUG ACCESSORIES.	

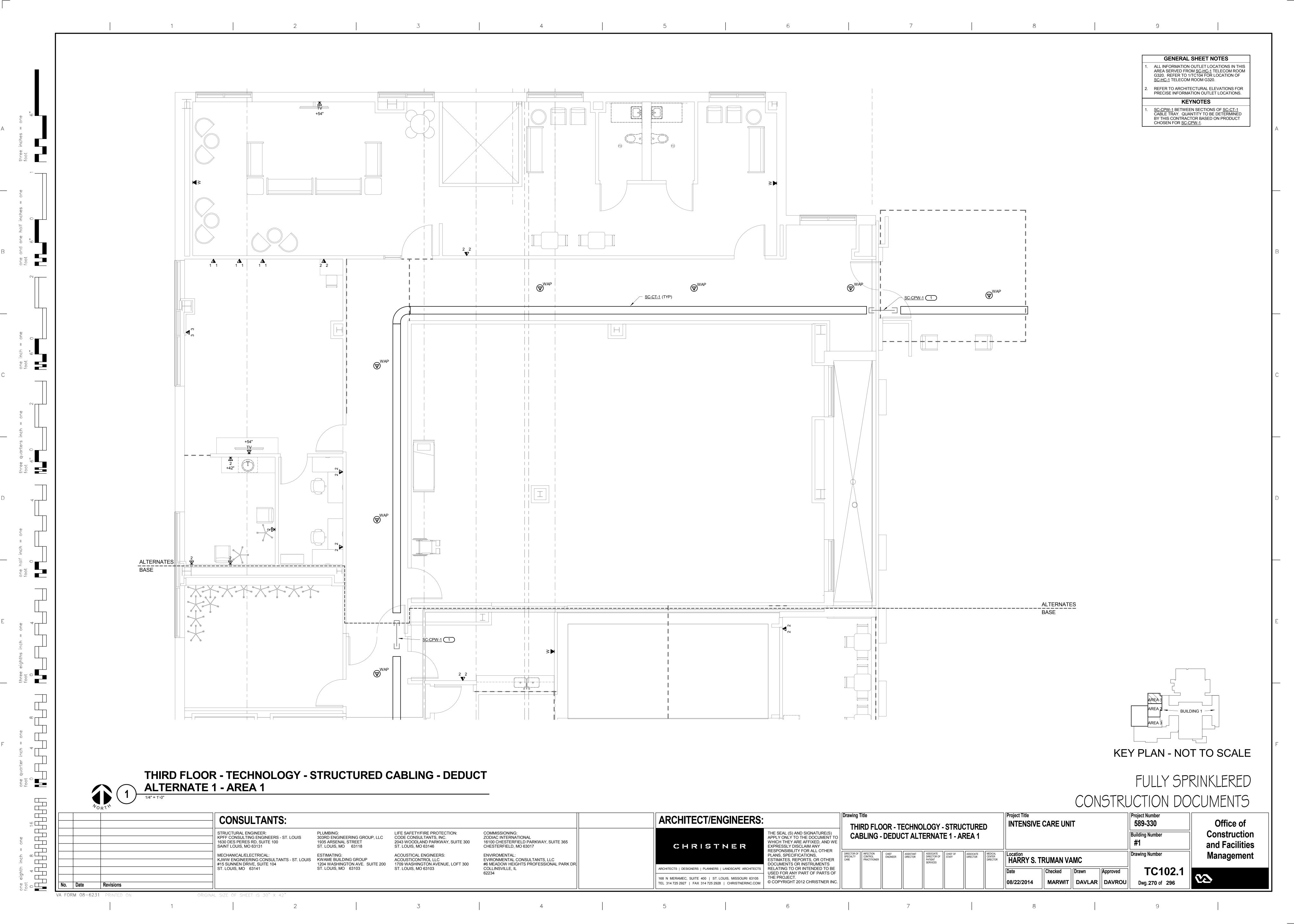
TEM NO.	TAG	DESCRIPTION	APPROVED MANUFACTURE
42	NC-TV-W	NURSE CALL TELEVISION RECEPTACLE. INCLUDES ONE (1) 1/4" STEREO PHONO JACK. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS. FURNISH COMPLETE WITH 5' LONG 1/4" STEREO PHONO TO 6-PIN JUMPER CABLE FOR CONNECTION TO TELEVISION. TELEVISIONS PROVIDED BY OTHERS.	•
		INSTALL IN A SINGLE GANG 3-1/2" DEEP BACKBOX INSTALLED DIRECTLY ADJACENT TO ASSOCIATED CATV INFORMATION OUTLET AT +96" AFF WITH ONE (1) 3/4" CONDUIT ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING.	
43	NC-BC-W	NURSE CALL BED CONNECTOR. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS. FURNISH COMPLETE WITH DUMMY PLUG ACCESSORIES.	*
		INSTALL IN A SINGLE GANG 3-1/2" DEEP BACKBOX AT +48" AFF WITH ONE (1) 3/4" CONDUIT ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING.	
44	NC-SC-W	NURSE CALL STAND-ALONE CONTROLLER. FACILITATES SYSTEM COMMUNICATION WITH DEVICES THAT ARE NOT ASSOCIATED WITH A PATIENT STATION. REFER TO SPECIFICATION SECTION 27 52 23 FOR REQUIREMENTS.	
		INSTALL IN A 3-GANG 3-1/2" DEEP BACKBOX ABOVE ACCESSIBLE CORRIDOR CEILING NEAREST TO ASSOCIATED CALL DEVICE, ADJACENT TO ASSOCIATED DOME LIGHT.	
45	NC-D-C NC-DZ-C	NURSE CALL MULTI-COMPARTMENT DOME LIGHT, CEILING MOUNT. INCLUDES FOUR (4) LED INDICATOR LAMPS; INDICATOR LAMP COLORS TO INCLUDE BLUE, AMBER, AND WHITE. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS.	•
		INSTALL IN A 4-SQUARE 2-1/8" DEEP BOX WITH 1-1/2" DEEP EXTENSION RING AND TILE BRIDGE MOUNTING BAR ACCESSORY, MOUNTED FLUSH IN ACCESSIBLE CEILING TILE.	
46	NC-DTY-W	NURSE CALL DUTY STATION. INCLUDES INDICATOR DISPLAY SCREEN, MICROPHONE, AND SPEAKER. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL REQUIREMENTS.	•
		INSTALL IN A 3-GANG 3-1/2" DEEP BACKBOX AT +48" AFF WITH ONE (1) 1" CONDUIT ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING.	
47	NC-MAS	NURSE CALL MASTER STATION, DESK MOUNT. MICROPHONE AND SPEAKER FOR HANDS—FREE AUDIO COMMUNICATION, HANDSET FOR PRIVATE AUDIO COMMUNICATION, INDICATOR DISPLAY SCREEN, MICROPROCESSOR BASED. REFER TO SPECIFICATION SECTION 27 52 23 FOR ADDITIONAL INFORMATION.	•
		INSTALL ASSOCIATED CABLE AND CABLE CONNECTOR IN A SINGLE-GANG 3-1/2" DEEP BACKBOX AT +18" AFF WITH ONE (1) 1" CONDUIT ROUTED TO JUNCTION BOX IN NEAREST ACCESSIBLE CORRIDOR CEILING.	
48	NC-CP-1	NURSE CALL CONTROL PANEL AND CENTRAL EQUIPMENT. INCLUDES CONTROL EQUIPMENT SUCH AS GATEWAYS, ROUTERS, SWITCHES, RELAY CONTACT PANELS, POWER SUPPLIES, ETC. REFER TO SPECIFICATION SECTION 27 52 23 FOR COMPLETE INFORMATION AND REQUIREMENTS. REFER TO 1/T504 FOR DEVICE CABLING REQUIREMENTS.	•
		ALL FIELD WIRING SHALL BE TERMINATED UNDER THE DIRECT SUPERVISION OF NURSE CALL SYSTEM MANUFACTURER'S AUTHORIZED REPRESENTATIVE.	
49	CC-C-W	SYNCHRONIZED CLOCK SYSTEM DIGITAL CLOCK. SINGLE FACE AND DOUBLE FACE CONFIGURATIONS, BLACK FACE WITH RED NUMBERS, BLACK CASE FINISH, U.L. LISTED. INSTALL AT +84" AFF.	SINGLE FACE PRIMEX XRA1B203
		COORDINATE 120 VAC POWER CONNECTION WITH ON-SITE ELECTRICAL CONTRACTOR.	DOUBLE FACE PRIMEX XRA1B423 NO EQUALS
50	AV-WP1-W	A/V INPUT WALL PLATE. 3-GANG DECORA-STYLE FORM FACTOR, HDMI, RGB, COMPONENT, AND COMPOSITE VIDEO WITH LINE-LEVEL STEREO AUDIO INPUTS, USB FOR HUMAN INTERFACE DEVICES. SUPPORTS DVI-D AND DISPLAYPORT INPUTS VIA HDMI CONNECTOR. SUPPORTS TRANSPORT OF VIDEO RESOLUTIONS OF UP TO 1920 X 1080 AND STEREO AUDIO INPUT SIGNALS UP TO 300 FEET VIA TWISTED PAIR A/V EXTENDER OUTPUT. USB HID EXTENDER INPUT. DEVICE SHALL BE FULLY COMPATIBLE WITH AV-SWC-1, AV-REC-1. AND AV-CP1-W, INSTALL INFORMATION OUTLET IN A 3-GANG 2-1/8" DEEP BACKBOX WITH A 1"	•
		EMT CONDUIT STUBBED TO NON-CONTINUOUS CABLE SUPPORT ROUTE OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING AT HEIGHT OF ASSOCIATED ROUTE OR CABLE TRAY.	
51	AV-SWC-1	A/V SWTCHER. THREE (3) TWISTED PAIR A/V EXTENDER INPUTS, ONE (1) TWISTED PAIR A/V EXTENDER OUTPUT. SUPPORTS HDMI, DVI—D, DISPLAYPORT, RGB, COMPONENT, AND COMPOSITE VIDEO UP TO RESOLUTIONS OF 1920 X 1200 AND STEREO AUDIO AT ALL INPUTS AND OUTPUTS. INTEGRATED USB HID EXTENDER AND SWITCH. AUTOMATIC EDID SIGNAL FORMAT MANAGEMENT. SUPPORTS REMOTE FUNCTION CONTROL VIA ETHERNET CONNECTION. PROVIDES LOW—VOLTAGE POWER FOR ASSOCIATED INPUT TRANSMITTERS AND OUTPUT RECEIVERS. DEVICE SHALL BE FULLY COMPATIBLE WITH AV—WP1—W, AV—REC—1, AND AV—CP1—W, RACK—MOUNTED.	•
52	AV-REC-1	A/V OUTPUT RECEIVER. TWISTED PAIR A/V EXTENDER INPUT, HDMI OUTPUT, USB OUTPUT FOR HUMAN INTERFACE DEVICES. SUPPORTS TRANSPORT OF VIDEO RESOLUTIONS OF UP TO 1920 X 1080 AND STEREO AUDIO INPUT SIGNALS UP TO 300 FEET VIA TWISTED PAIR A/V EXTENDER INPUT. DEVICE SHALL BE FULLY COMPATIBLE WITH AV—WP1—W, AV—SWC—1 AND AV—CP1—W.	•
53	AV-CP1-W	A/V CONTROL PANEL. TEN (10) PROGRAMMABLE BUTTONS, ONE (1) ROTARY ENCODER VOLUME KNOB. PROVIDES INTEGRATED CONTROL OF INTEGRATED A/V SYSTEM COMPONENTS VIA INFRARED, RS-232, RELAY CONTACT, AND ETHERNET CONNECTIONS. ONE (1) ETHERNET, FIVE (5) RS-232, THREE (3) RELAY, AND TWO (2) INFRARED CONTROL OUTPUT CONNECTORS, ONE (1) USB PROGRAMMING CONNECTOR. INTEGRAL INFRARED RECEIVER SENSOR. DEVICE SHALL BE FROM SAME MANUFACTURER AS AND COMPLETELY COMPATIBLE WITH AV-WP1-W, AV-SWC-1, AV-REC-1.	•
		INSTALL INFORMATION OUTLET IN A 3-GANG 2-1/8" DEEP BACKBOX WITH A 1" EMT CONDUIT STUBBED TO NON-CONTINUOUS CABLE SUPPORT ROUTE OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING AT HEIGHT OF ASSOCIATED ROUTE OR CABLE TRAY.	
54	AV-DSP-1	DIGITAL SIGNAL PROCESSOR. 2 INPUT, 6 OUTPUT. 20-20,000 Hz FREQUENCY RESPONSE (± 0.5 dB), TOTAL HARMONIC DISTORTION < 0.05%, 48 kHz SAMPLING, 24-BIT A/D AND D/A CONVERSION. PROVIDES MULTI-BAND CROSSOVER, GRAPHIC EQUALIZATION, PARAMETRIC EQUALIZATION, HIGH AND LOW BANDPASS FILTERING, AND LIMITING FUNCTIONS. PROGRAMMABLE VIA PC GUI. FRONT PANEL SYSTEM LOCK, RACK MOUNTABLE. FURNISH COMPLETE WITH GUI SOFTWARE CD.	•
55	AV-AMP-1	POWER AMPLIFIER. 100 WATTS PER CHANNEL AT 70 VOLTS, MEASURED BOTH CHANNELS DRIVEN. FREQUENCY RESPONSE 20 Hz - 20 kHz +/- 0.2 dB. TYPICAL DISTORTION < 0.02%, MAX DISTORTION <0.05%. DAMPING FACTOR > 500. UL LISTED.	•
56	AV-SP1-C	A/V CEILING SPEAKER, FULL RANGE. TWO-WAY PASSIVE COAXIAL CONFIGURATION WITH 8" LOW-FREQUENCY CONE DRIVER AND 1" EXIT HIGH-FREQUENCY COMPRESSION DRIVER. INTEGRAL 70-VOLT TRANSFORMER INPUT, MINIMUM SENSITIVITY OF 91 dB, FREQUENCY RESPONSE OF 50 Hz TO 18 kHz, MINIMUM PROGRAM POWER HANDLING OF 30 WATTS AT 70 VOLTS, NOMINAL 110-120' CONICAL COVERAGE PATTERN. PROVIDE COMPLETE WITH MANUFACTURER'S MATCHING CYLINDRICAL METAL BACK CAN, CIRCULAR GRILLE ACCESSORIES, AND TILE BRIDGE.	•
57	AV-PMT-1	UNIVERSAL PROJECTOR MOUNT, SUSPENDED CEILING TILE REPLACEMENT KIT AND 6" X 1-1/2" NPT PIPE. SUSPENDED CEILING TILE REPLACEMENT KIT SHALL BE DESIGNED TO REPLACE ONE (1) 2' X 2' CEILING TILE OR TO SIT ABOVE THE SUSPENDED CEILING TILE AND BE SUSPENDED AND SECURED TO STRUCTURE WITH	•

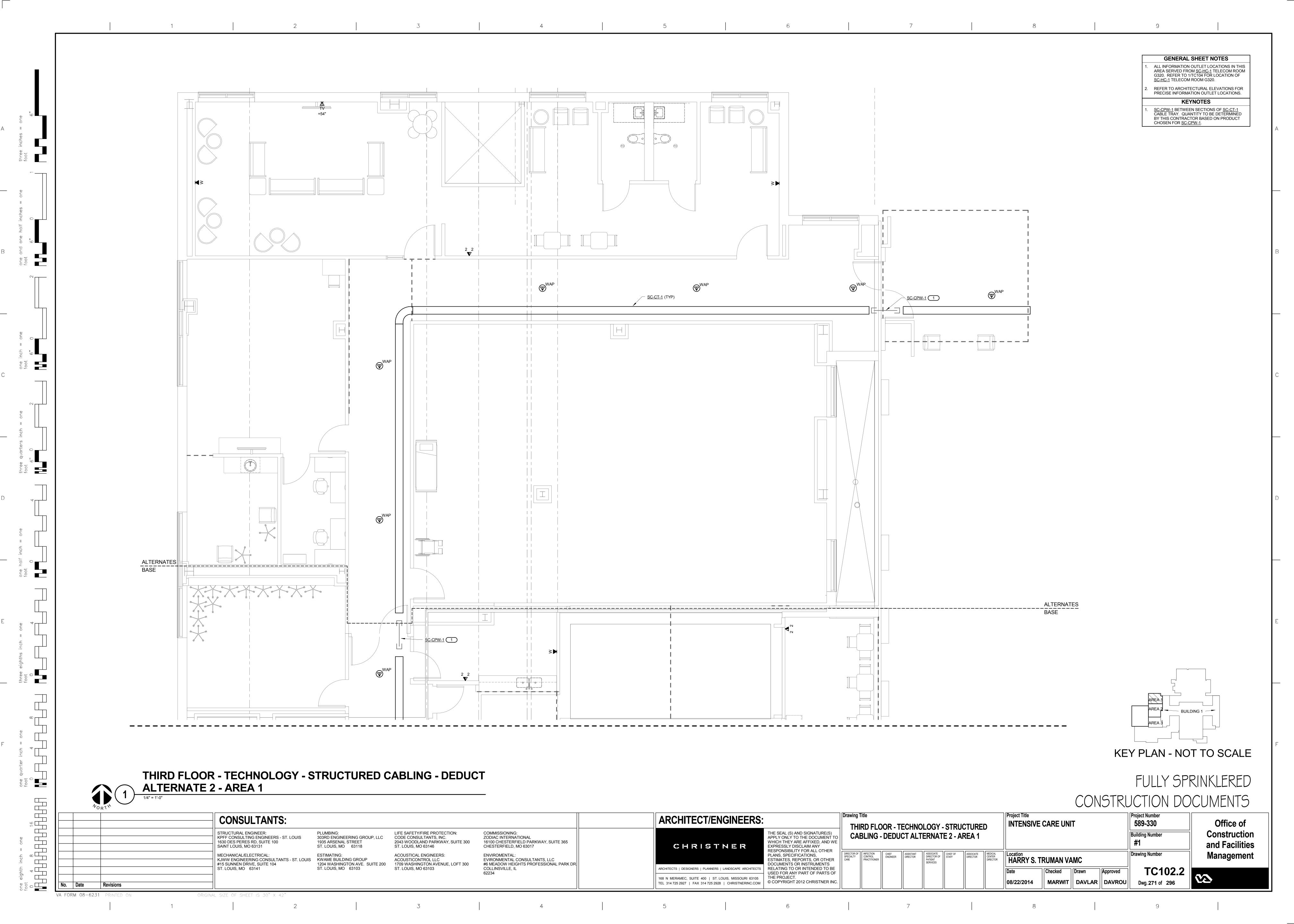
FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

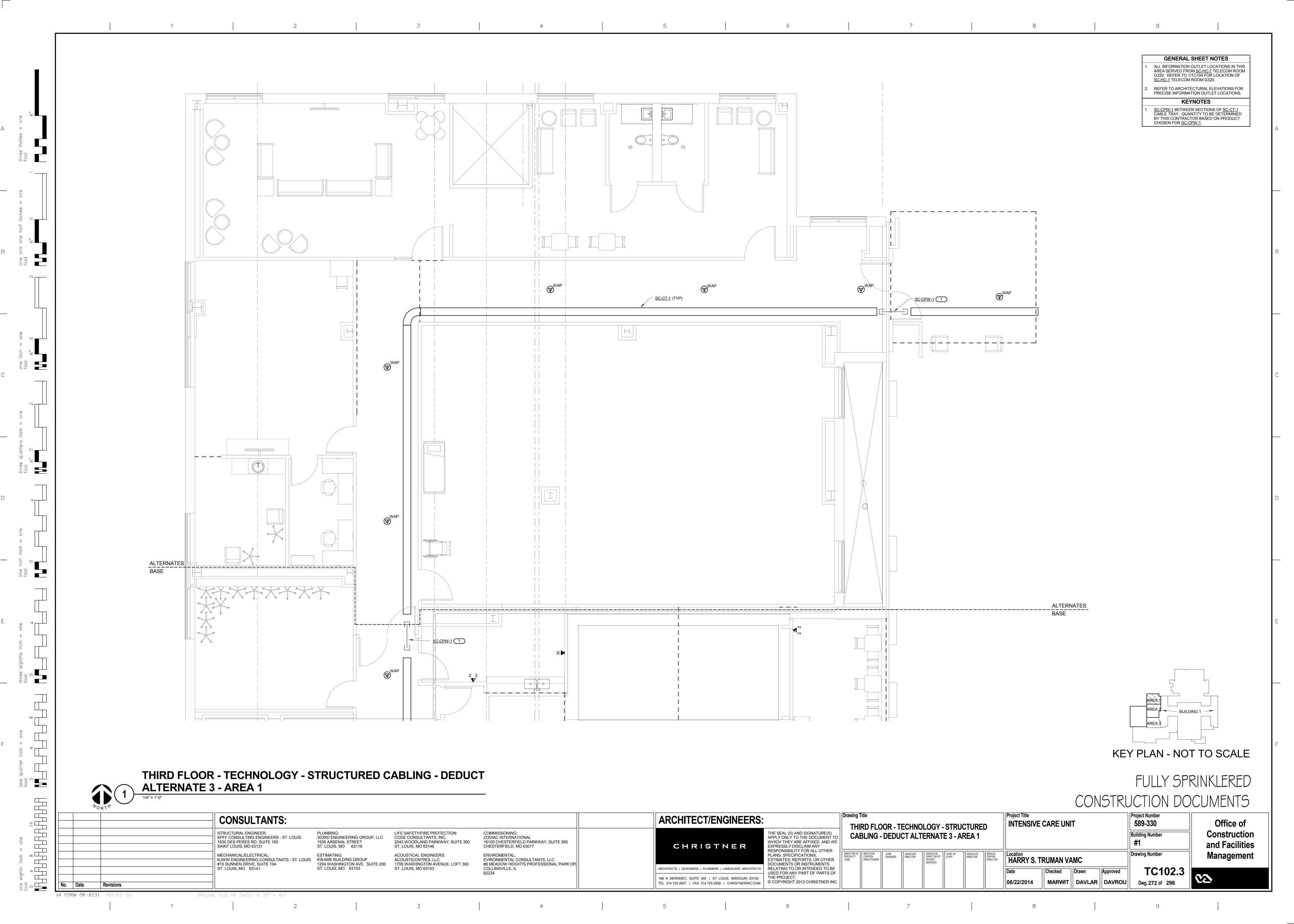
	CONSULTANTS:				ARCHITECT/ENGINE	ERS:	Drawing Title GENERAL TECHNOLO	SY FOLIIPME	NT	Project Title	E CARE UNIT		Project Number 589-330	Office of
	STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	CHRISTNER	THE SEAL (S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND WE EXPRESSLY DISCLAIM ANY	SCHEDULE	or Eggii iii					Building Number #1	Construction and Facilities
	MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS #15 SUNNEN DRIVE, SUITE 104	ESTIMATING: KWAME BUILDING GROUP 1204 WASHINGTON AVE. SUITE 200	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR.		RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS	DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER ASSISTANT DIRECTOR	ASSOCIATE DIRECTOR OF PATIENT SERVICES	ASSOCIATE DIRECTOR MEDICAL CENTER DIRECTOR	HARRY S.	TRUMAN VAI	IC	Drawing Number	Management
No. Date Revisions	ST. LOUIS, MO 63141	ST. LOUIS, MO 63103	ST. LOUIS, MO 63103	COLLINSVILLE, IL 62234	168 N MERAMEC, SUITE 400 ST. LOUIS, MISSOURI 63 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.	RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF THE PROJECT. © COPYRIGHT 2012 CHRISTNER INC.				Date 08/22/2014	Checked Dr MARWIT D	wn Approved AVLAR DAVRO		Department of Veterans Affairs

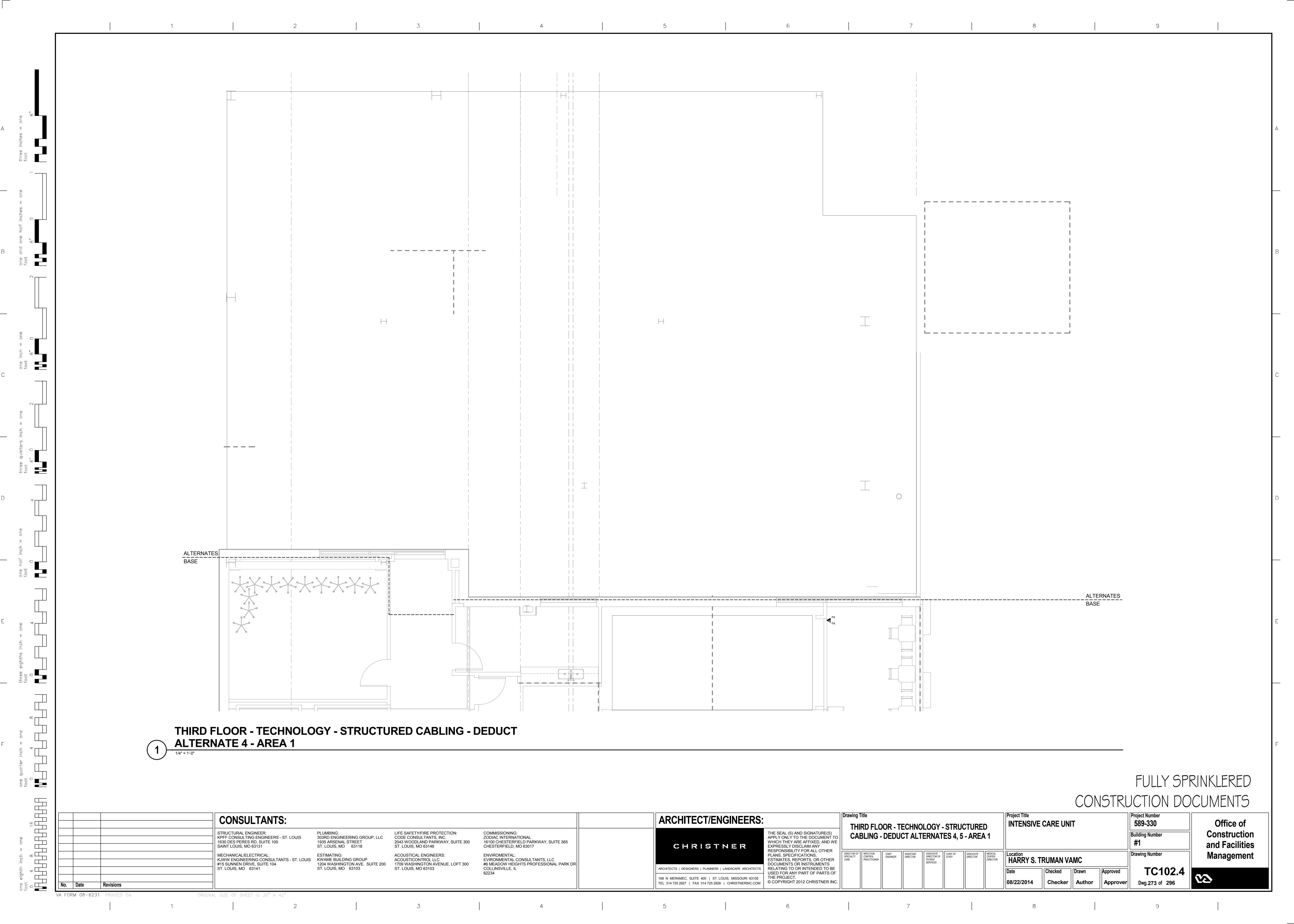


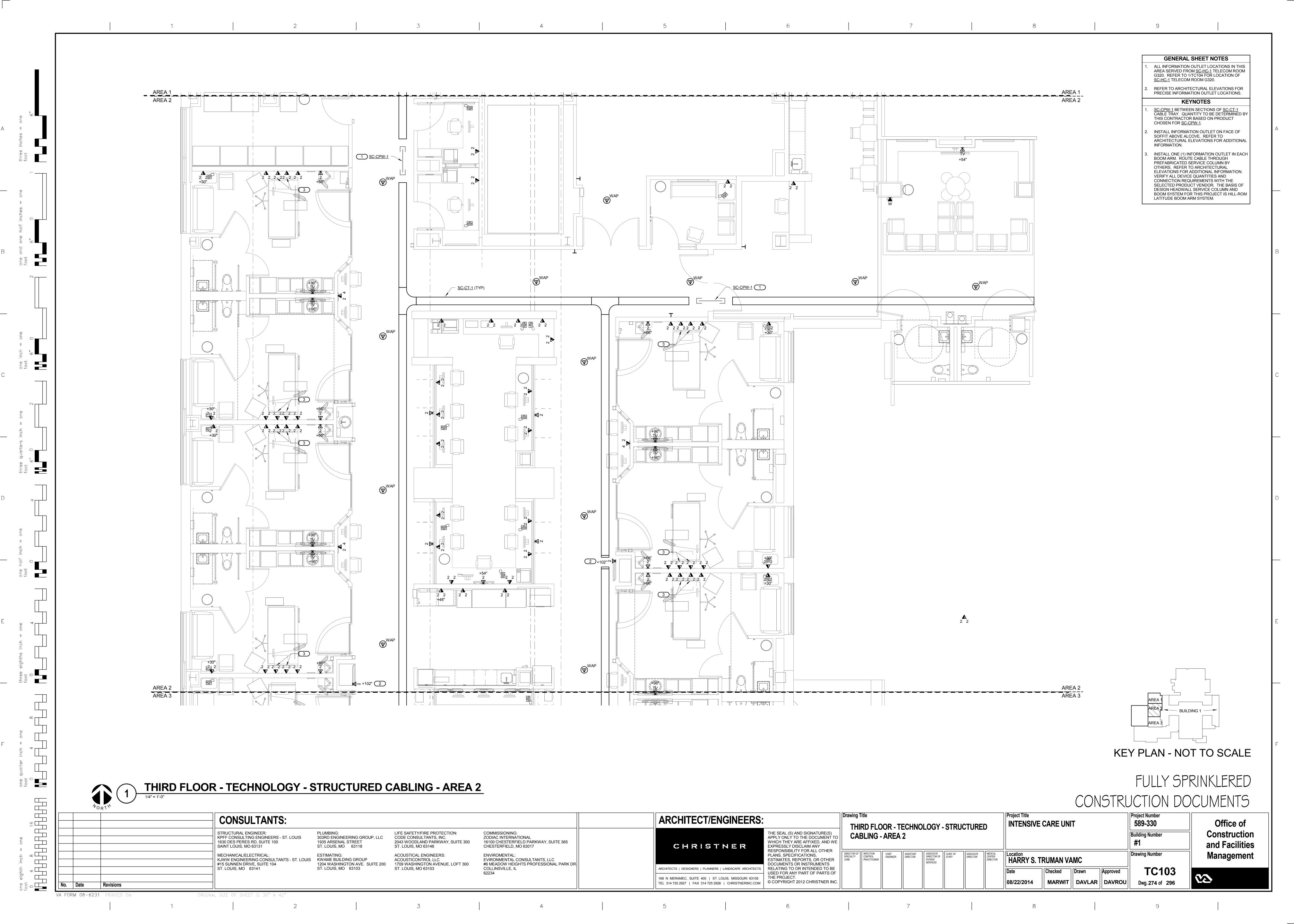


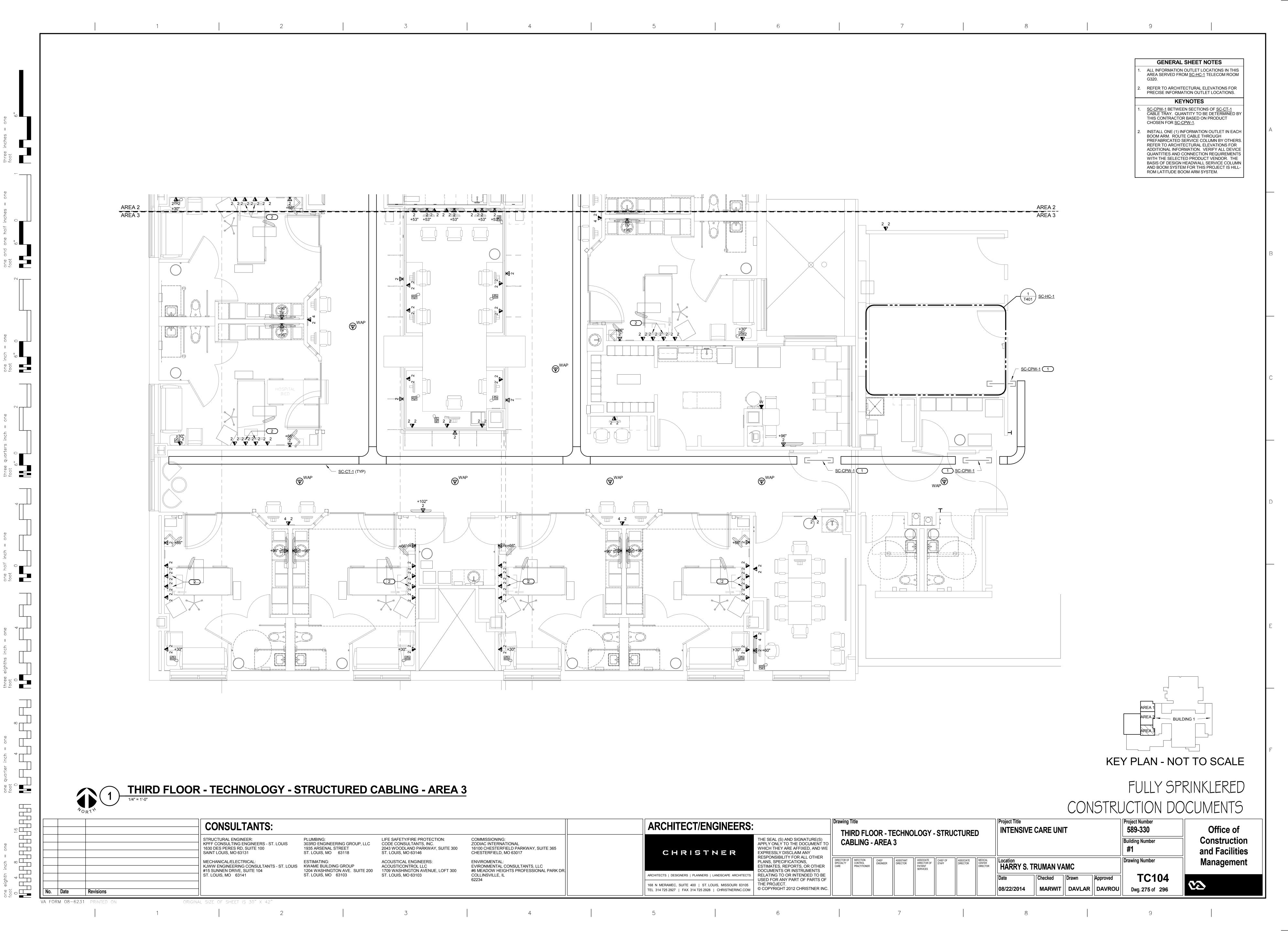


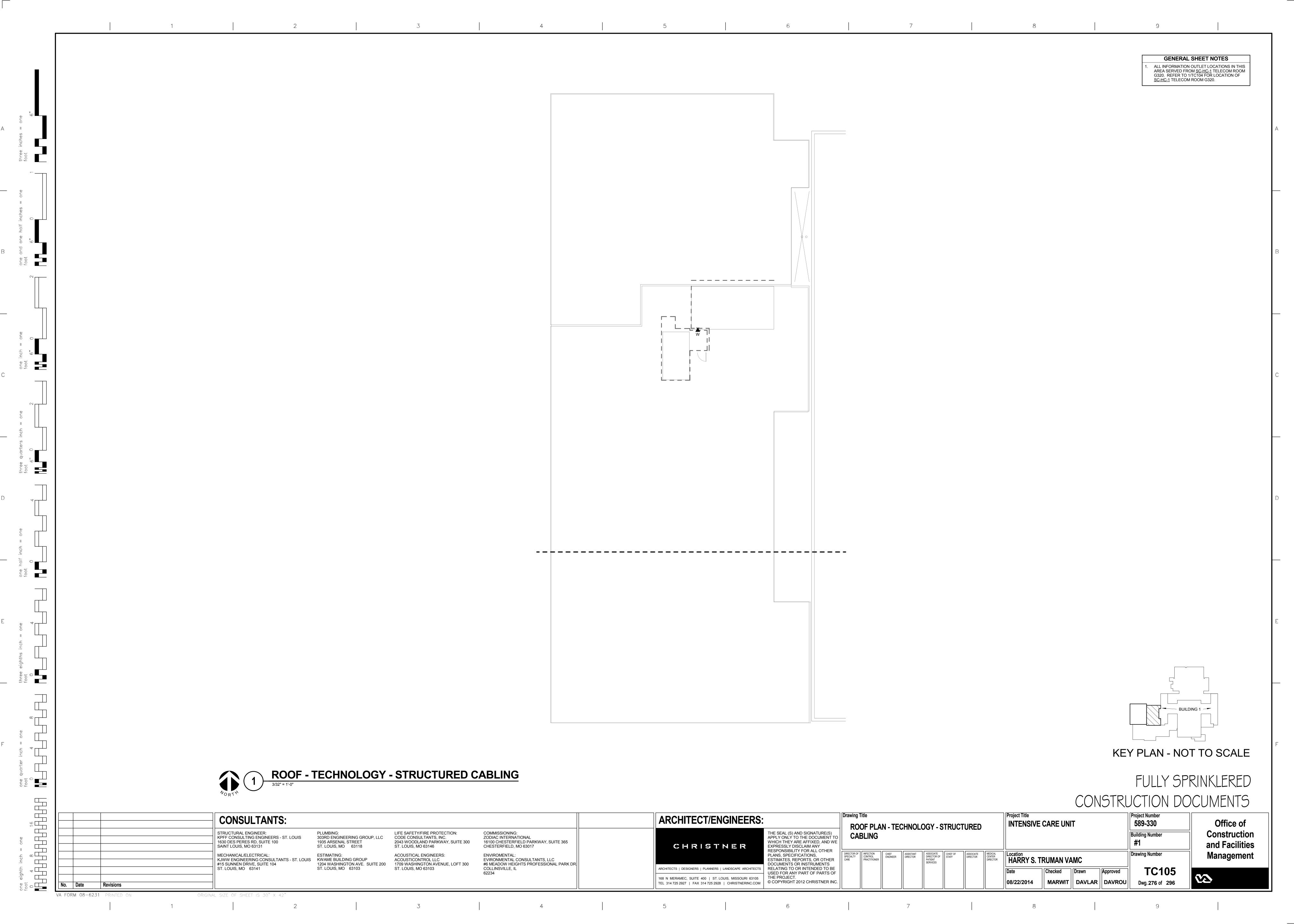


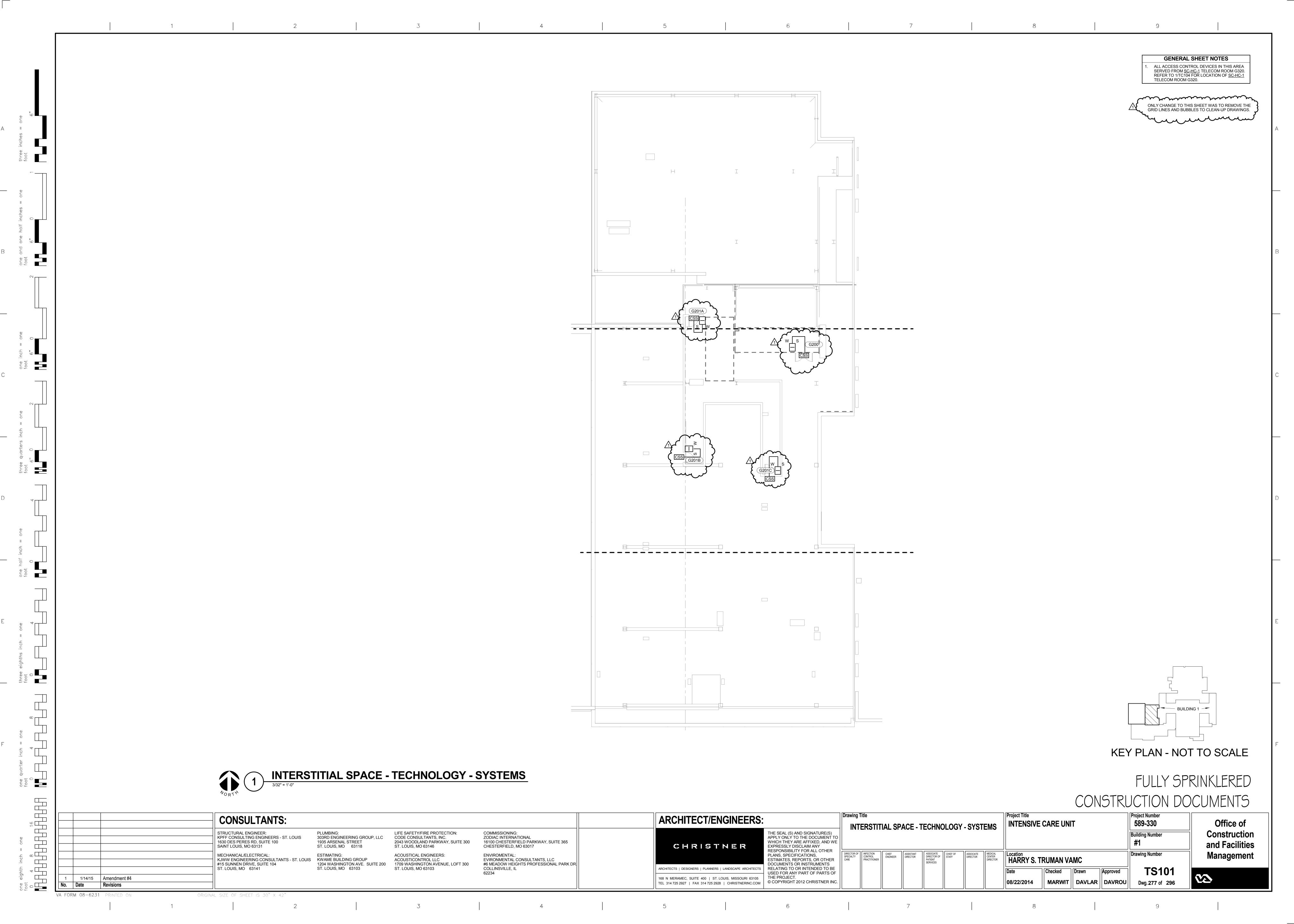


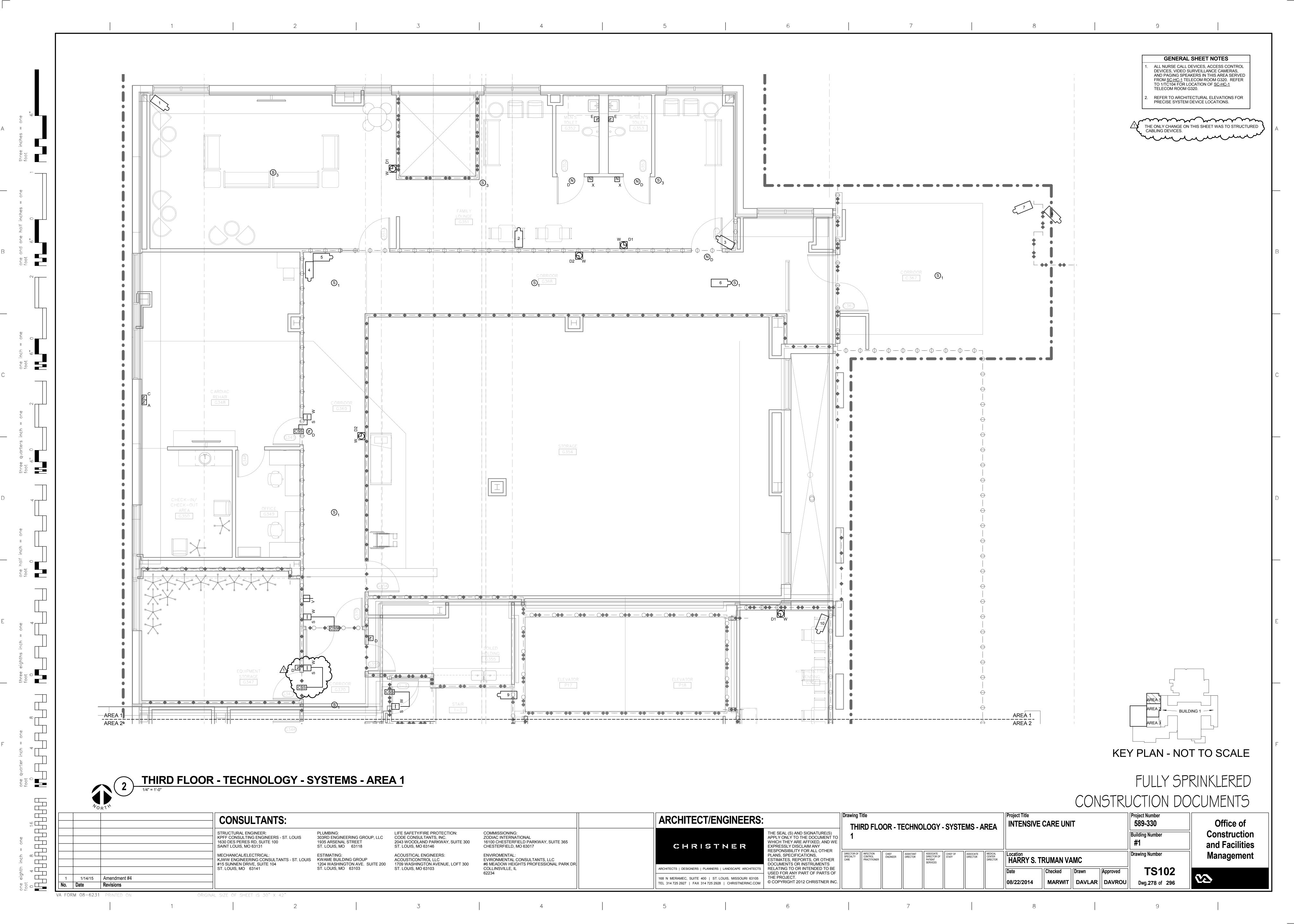


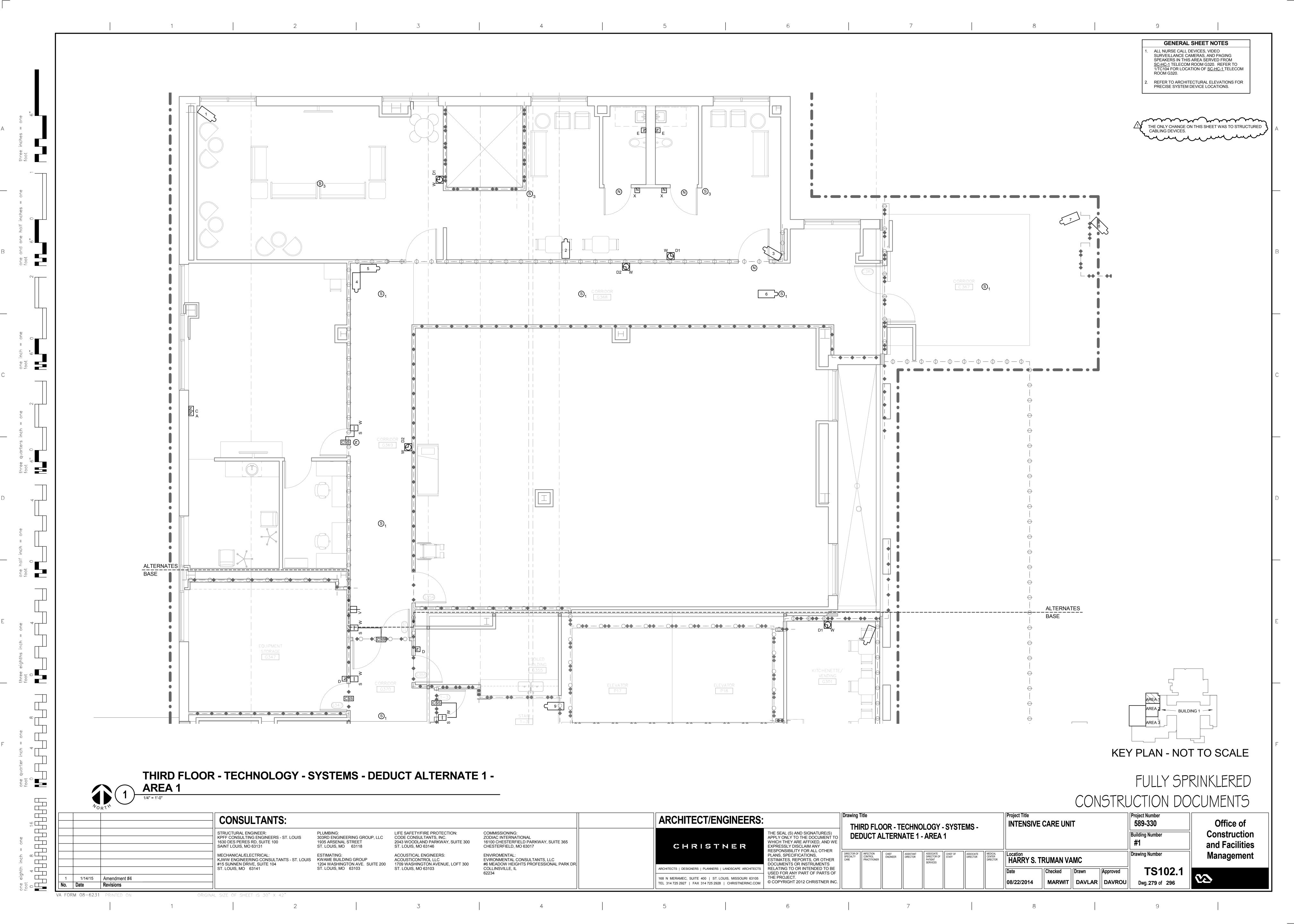


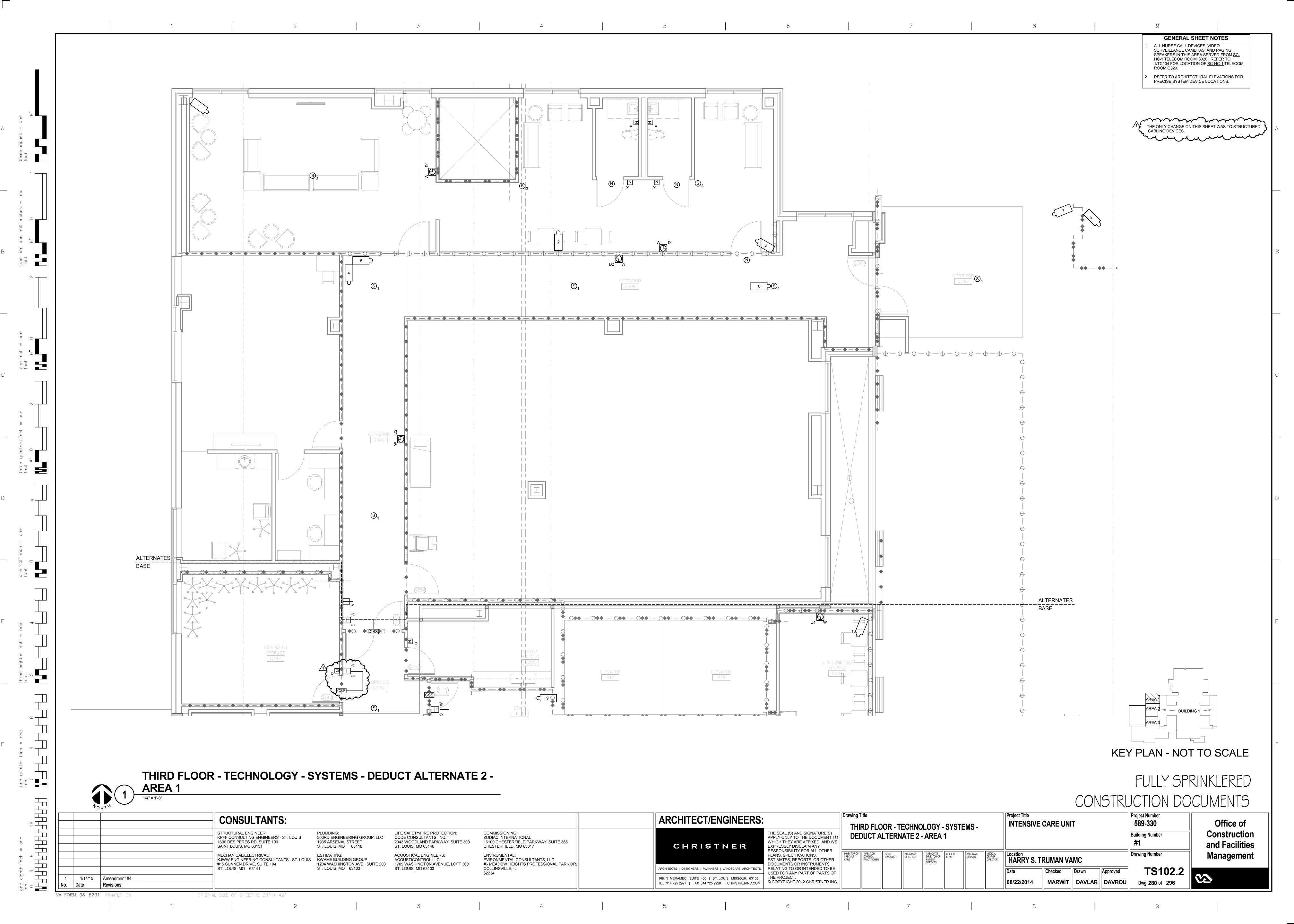


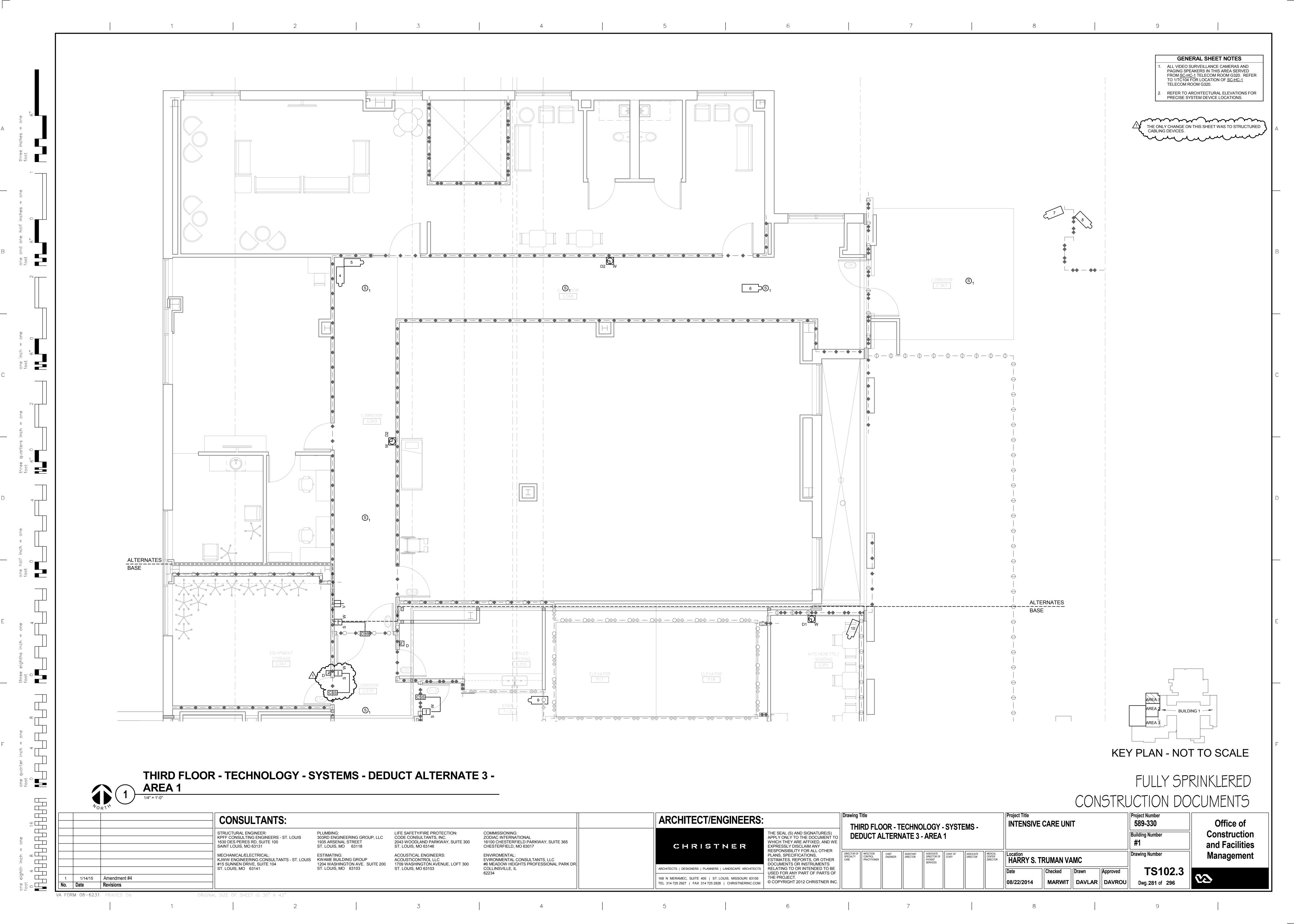


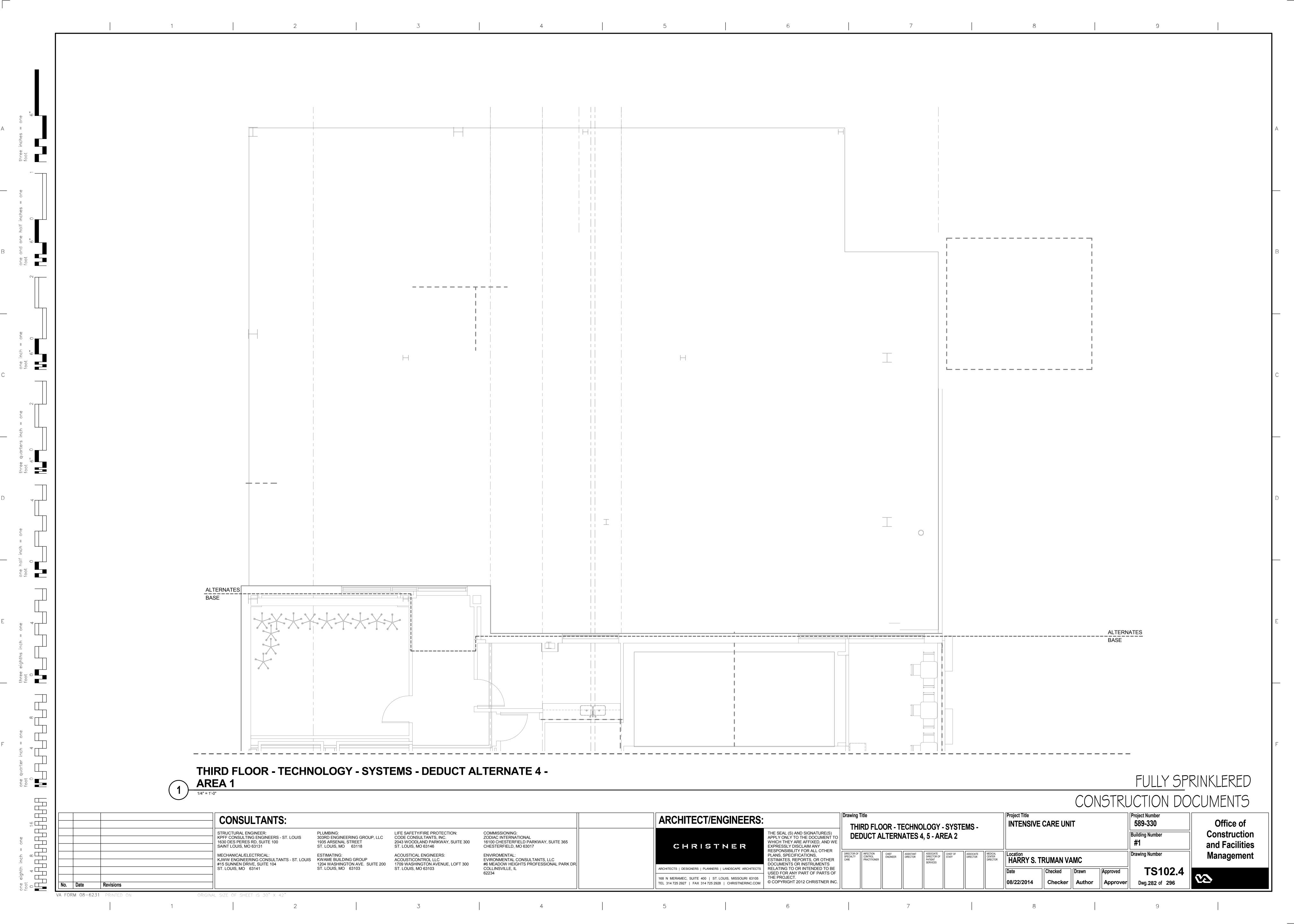


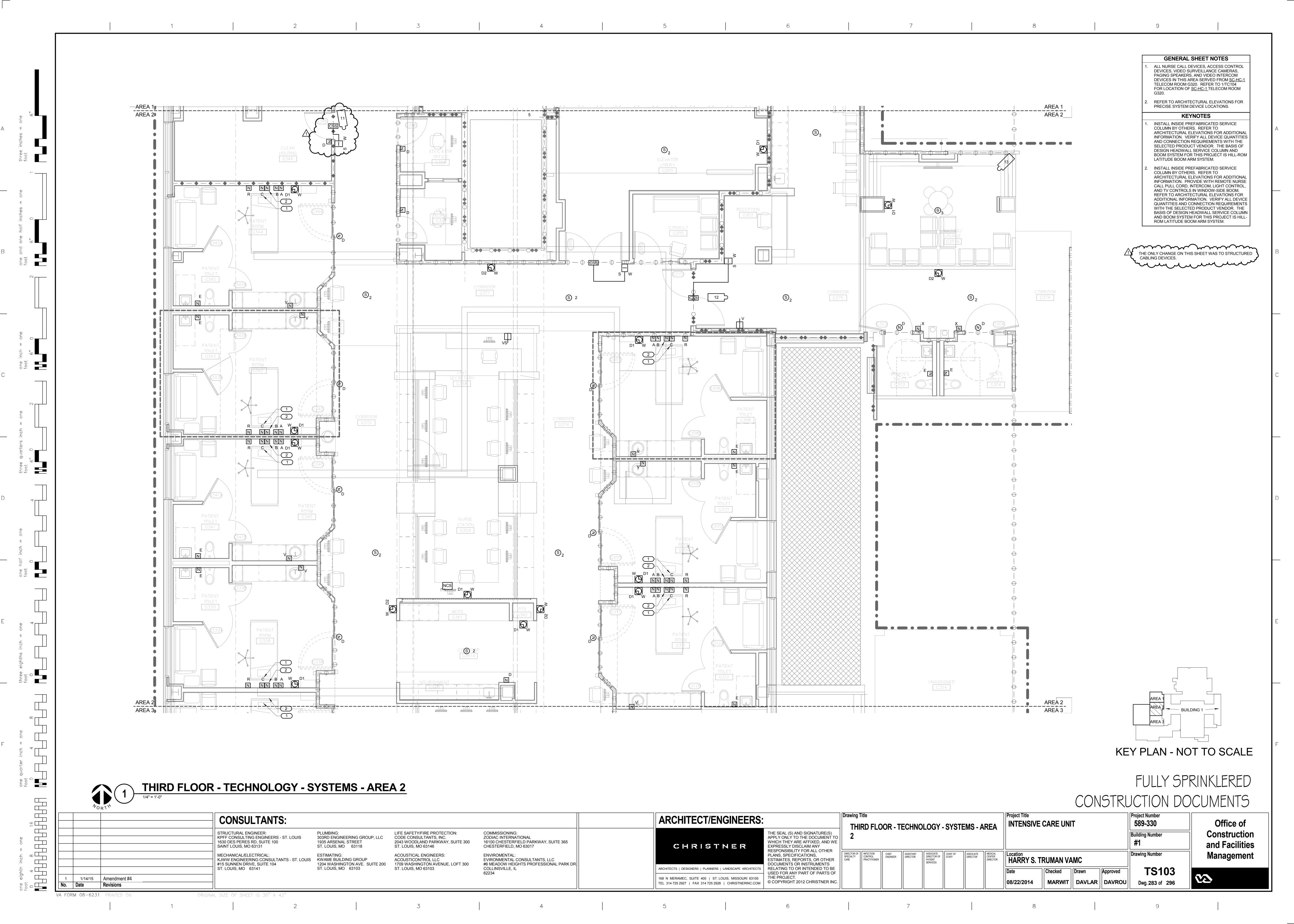


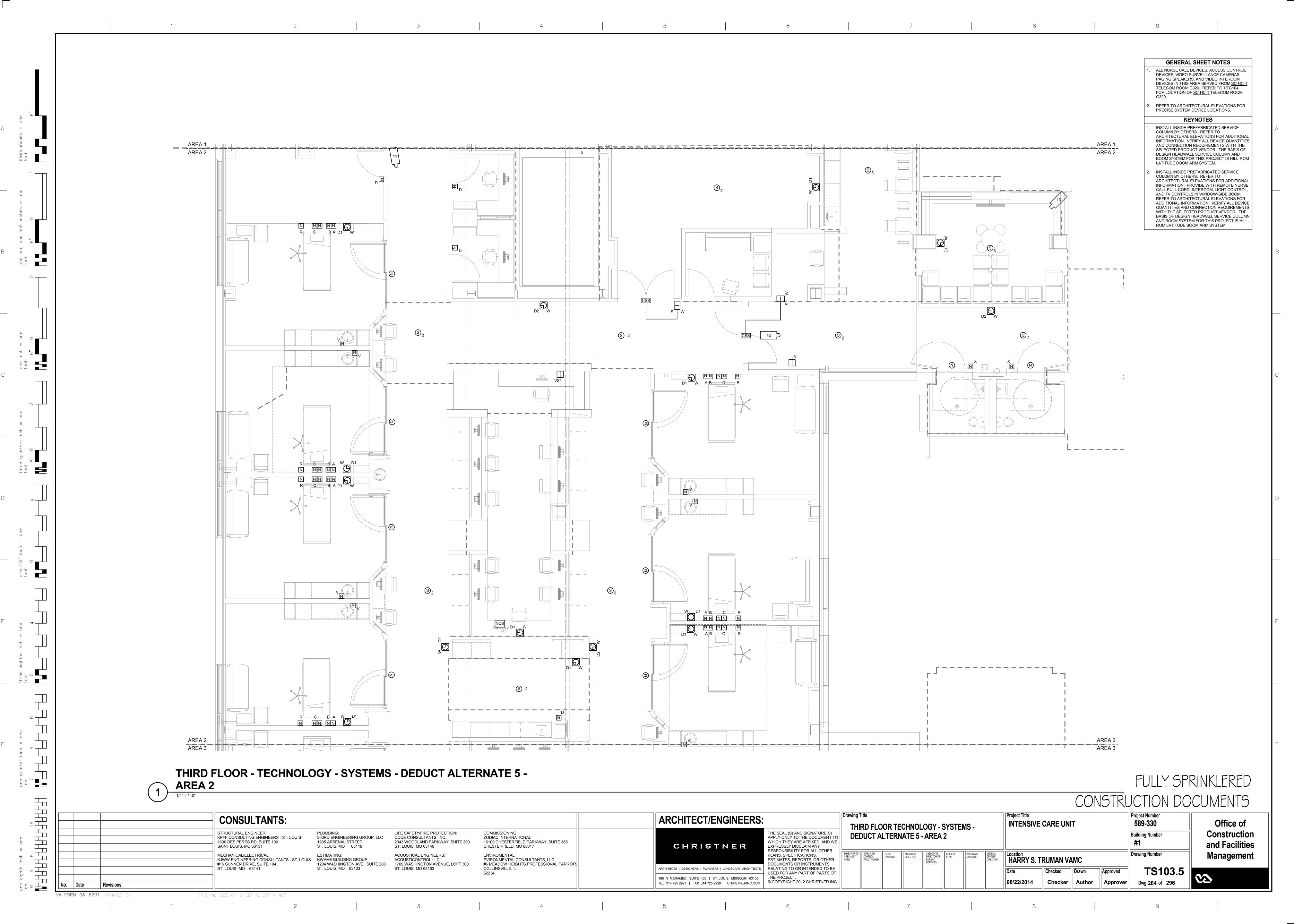


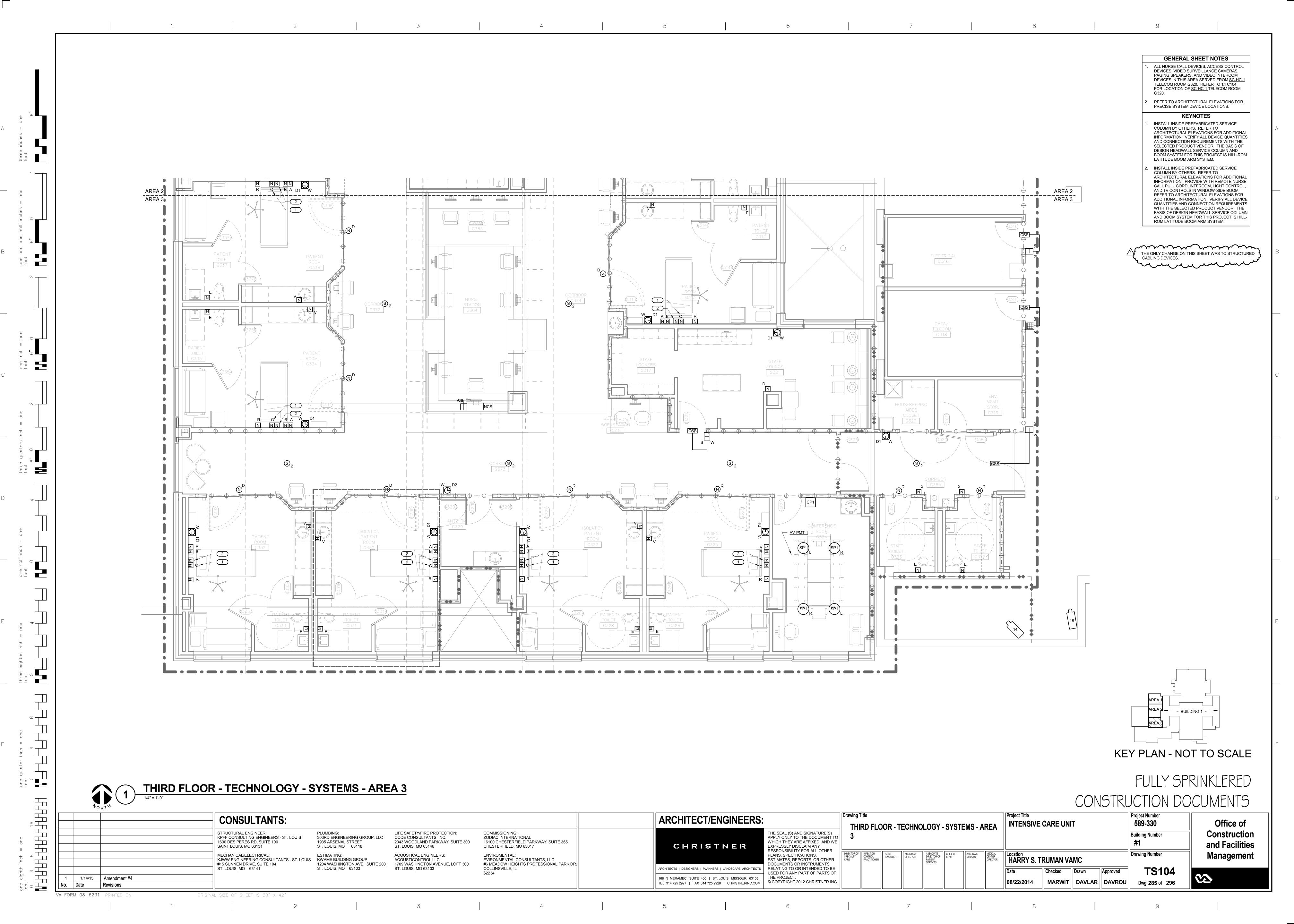


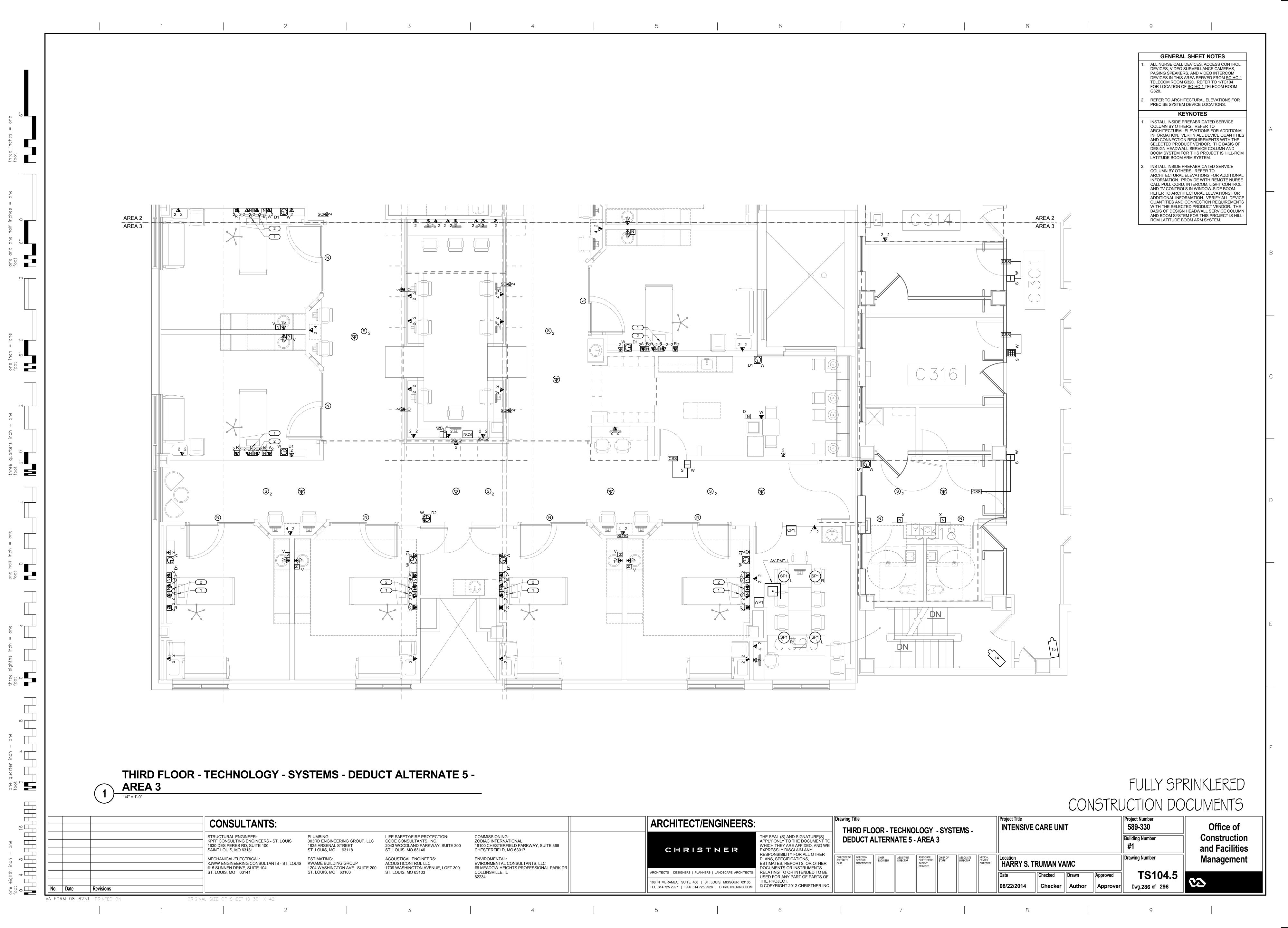


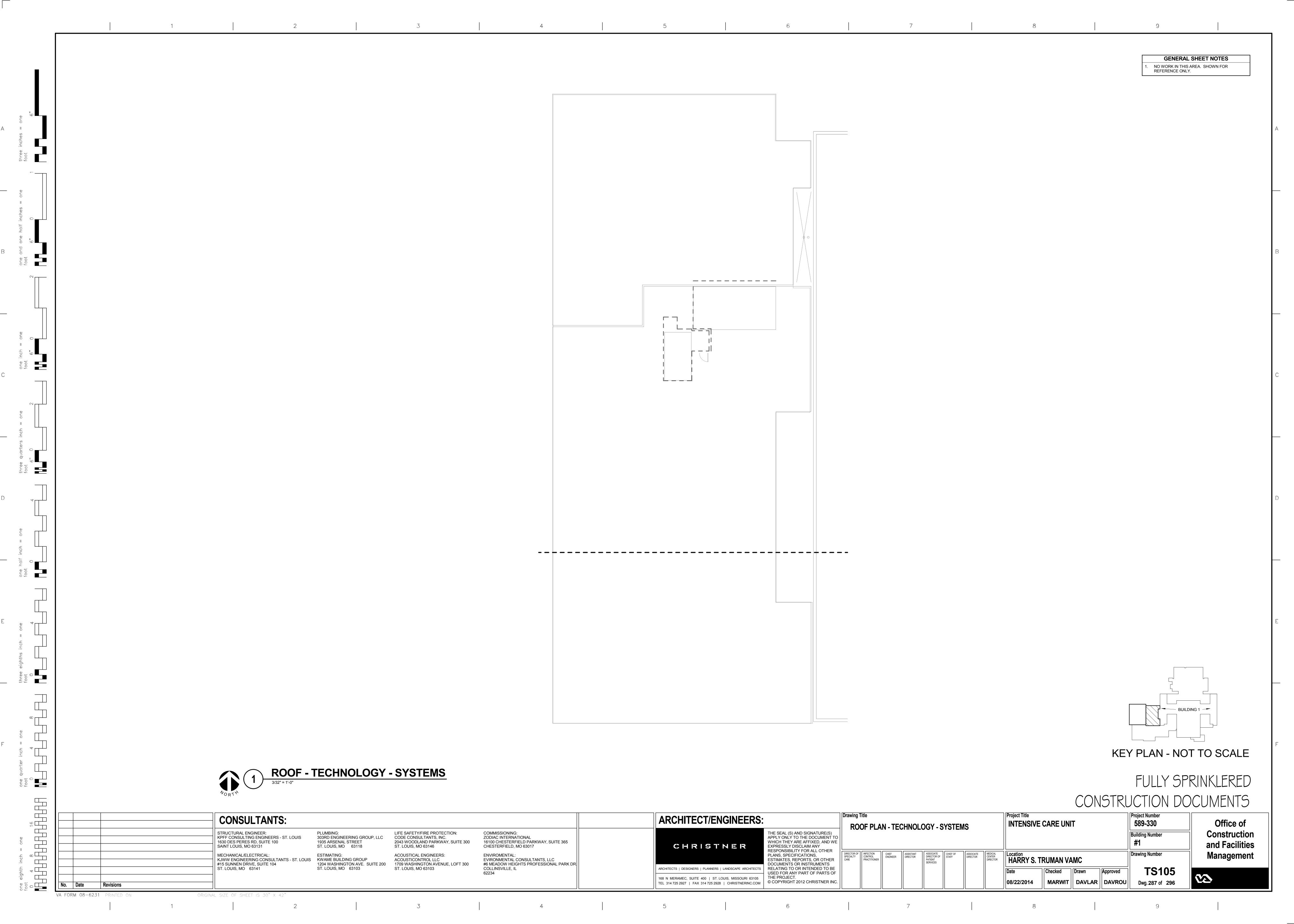


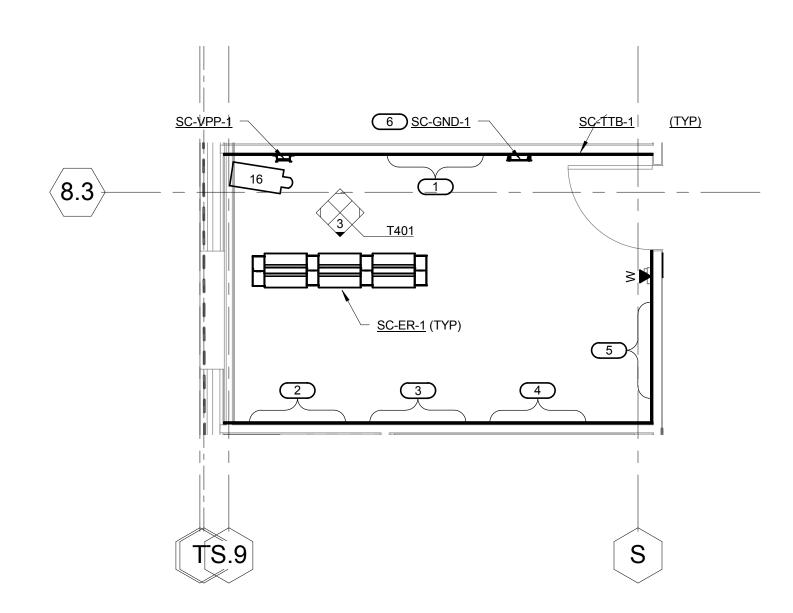












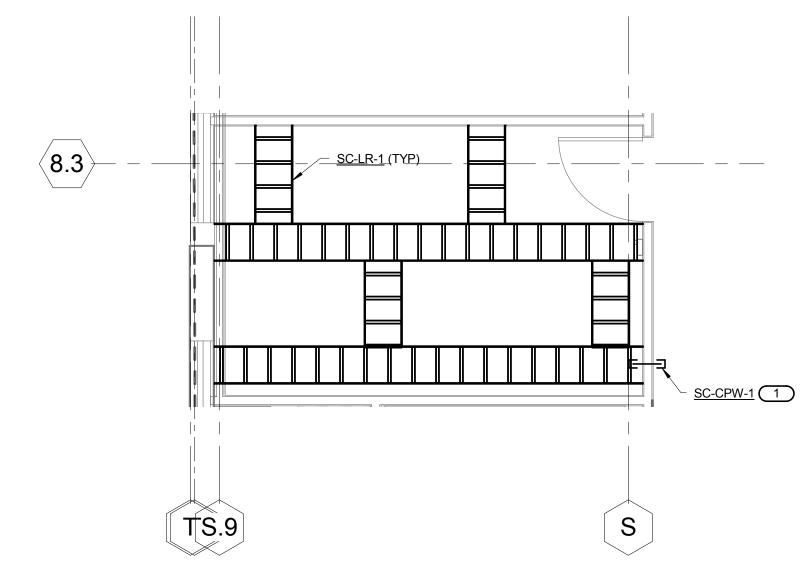
ENLARGED PLAN SC-HC-1 TELECOM ROOM G320

- COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN <u>SC-HC-1</u> TELECOM ROOM G320 ON SITE WITH
- 2. COORDINATE INSTALLATION SCHEDULE FOR UTILITY/SERVICE POWER OUTLETS AND ANY EQUIPMENT POWER CONNECTIONS REQUIRED FOR CONTRACTOR FURNISHED AND INSTALLED EQUIPMENT IN <u>SC-HC-1</u> TELECOM ROOM G320 WITH ON-SITE ELECTRICAL CONTRACTOR.

3. REFER TO 2/T401 FOR <u>SC-HC-1</u> TELECOM ROOM G320 PATHWAYS LAYOUT.

KEYNOTES:

- 1. WALL SPACE RESERVED TO PROVIDE MOUNTING AREA FOR CATV DISTRIBUTION EQUIPMENT, TERMINATIONS, AND CONNECTIONS (EQUALIZERS, AMPLIFIERS, SPLITTERS, TAPS, ETC).
- 2. WALL SPACE RESERVED TO PROVIDE MOUNTING AREA FOR PAGING SYSTEM EQUIPMENT, TERMINATIONS, AND CONNECTIONS (CONTROL PANELS, POWER SUPPLIES, JUNCTION BOXES, ETC).
- 3. WALL SPACE RESERVED TO PROVIDE MOUNTING AREA FOR ACCESS CONTROL SYSTEM EQUIPMENT, TERMINATIONS, AND CONNECTIONS (CONTROL PANELS, POWER SUPPLIES, JUNCTION BOXES, ETC).
- 4. WALL SPACE RESERVED TO PROVIDE MOUNTING AREA FOR VIDEO SURVEILLANCE SYSTEM EQUIPMENT, TERMINATIONS, AND CONNECTIONS (CONTROL PANELS, POWER SUPPLIES, JUNCTION BOXES, ETC). 5. WALL SPACE RESERVED TO PROVIDE MOUNTING AREA FOR NURSE CALL SYSTEM EQUIPMENT, TERMINATIONS, AND
- CONNECTIONS (CONTROL PANELS, POWER SUPPLIES, JUNCTION BOXES, ETC). 6. REFER TO 2/T505 AND 5/T601 FOR ADDITIONAL INFORMATION. MOUNT AT A HEIGHT OF 60" AFF TO THE TOP OF THE

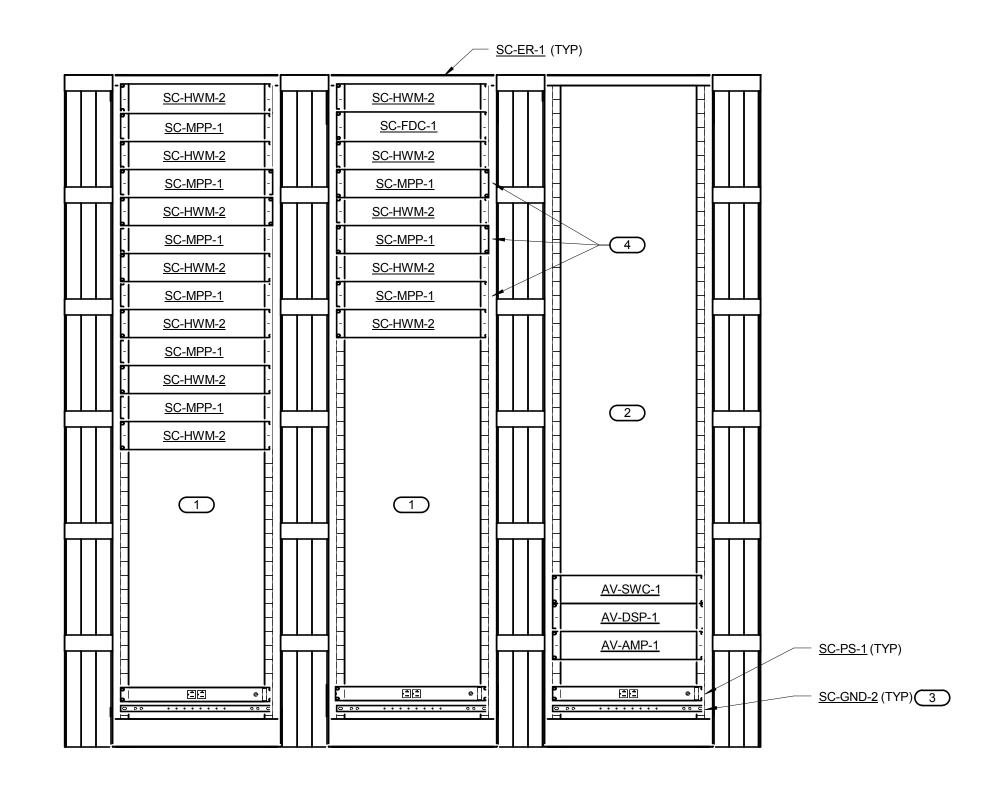


ENLARGED PLAN SC-HC-1 TELECOM ROOM G320 PATHWAYS

- COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN <u>SC-HC-1</u> TELECOM ROOM G320 ON SITE WITH OWNER.
 INSTALL ALL HORIZONTAL LADDER RACK IN <u>SC-HC-1</u> TELECOM ROOM G320 AT A HEIGHT OF 90" AFF.
 FURNISH AND INSTALL LADDER RACK RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO, OFF OF, OR BETWEEN SECTIONS OF HORIZONTAL AND/OR VERTICAL LADDER RACK. REFER TO 4/T601 FOR ADDITIONAL INFORMATION.

KEYNOTES:

1. <u>SC-CPW-1</u> FROM <u>SC-LR-1</u> LADDER RACK AT CEILING OF <u>SC-HC-1</u> TELECOM ROOM G320 TO <u>SC-CT-1</u> CABLE TRAY AT CEILING OF CORRIDOR G376. QUANTITY TO BE DETERMINED BY THIS CONTRACTOR BASED ON PRODUCT CHOSEN FOR <u>SC-CPW-1</u>.



RACK ELEVATION SC-HC-1 TELECOM ROOM G320

- COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN <u>SC-HC-1</u> TELECOM ROOM G320 ON SITE WITH
- 2. FURNISH AND INSTALL LADDER RACK RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO, OFF OF, OR BETWEEN SECTIONS OF HORIZONTAL AND/OR VERTICAL LADDER RACK. REFER TO 4/T601 FOR ADDITIONAL
- 3. COORDINATE INSTALLATION SCHEDULE FOR UTILITY/SERVICE POWER OUTLETS AND ANY EQUIPMENT POWER CONNECTIONS REQUIRED FOR CONTRACTOR FURNISHED AND INSTALLED EQUIPMENT IN <u>SC-HC-1</u> TELECOM ROOM G320 WITH ON-SITE ELECTRICAL CONTRACTOR.

KEYNOTES:

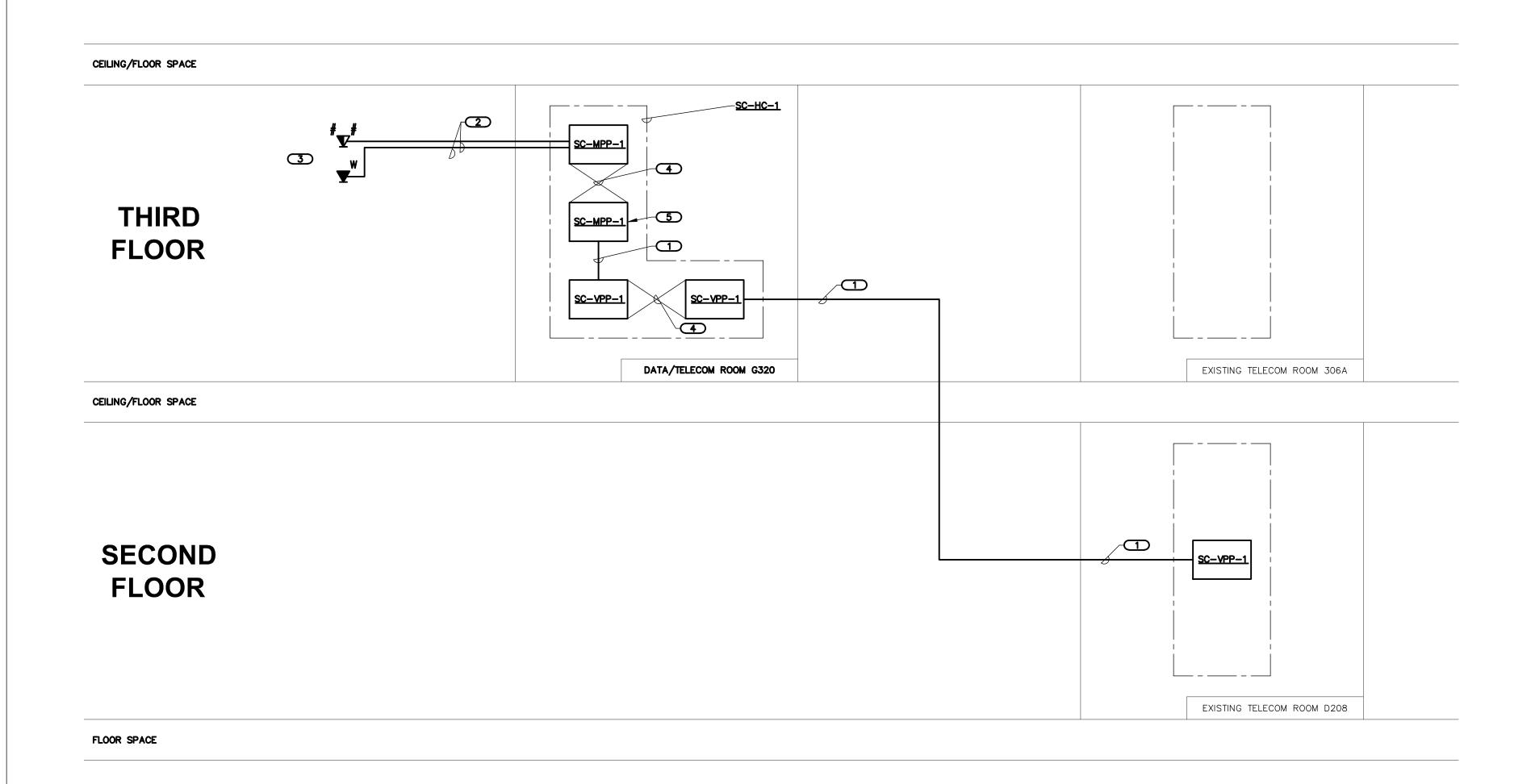
- 1. SPACE FOR FUTURE ADDITIONAL PATCH PANEL(S).
- SPACE FOR OWNER SUPPLIED EQUIPMENT (HUBS, SWITCHES, ROUTERS, SERVERS, ETC.) REFER TO 2/T505 FOR ADDITIONAL INFORMATION.
- 4. <u>SC-MPP-1</u> FOR TERMINATION OF 300-PAIR VOICE BACKBONE CABLE FROM WALL-MOUNTED <u>SC-VPP-1</u> TO EQUIPMENT RACK. REFER TO 1/T501 FOR ADDITIONAL INFORMATION.

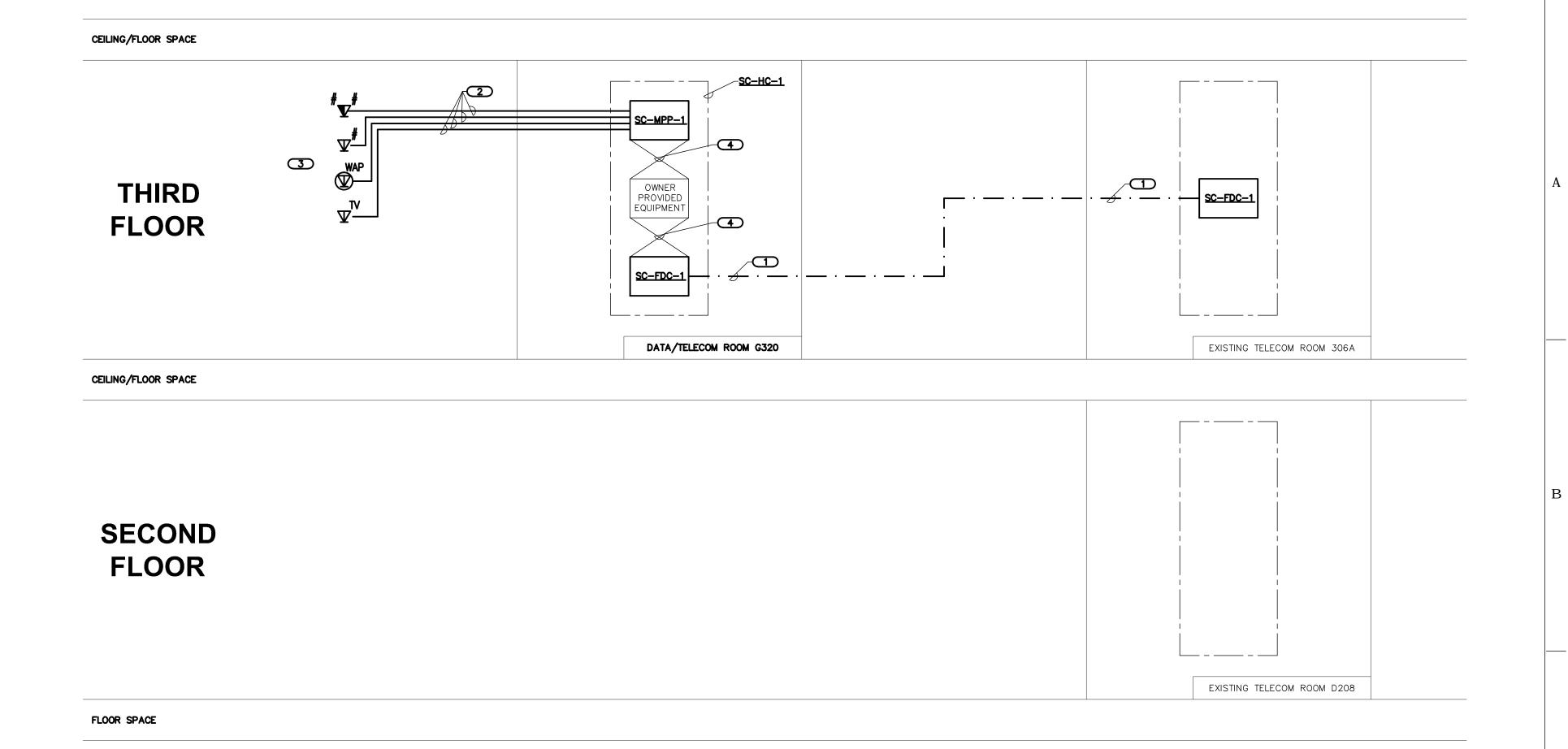
FULLY SPRINKLERED CONSTRUCTION DOCLINAENTS

	CONSULTANTS:				ARCHITECT/ENGINEERS:	Drawing Title ENLARGED PLANS AND ELEVATIONS -	Project Title INTENSIVE CARE UNIT	Project Number 589-330	Offi
	KPFF CONSULTING ENGINEERS - ST. LOUIS 30 1630 DES PERES RD, SUITE 100 19	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	THE SEAL (S) AND SIGNATUR APPLY ONLY TO THE DOCUM WHICH THEY ARE AFFIXED, A EXPRESSLY DISCLAIM ANY	TECHNOLOGY ND WE		Building Number #1	Cons
	KJWW ENGINEERING CONSULTANTS - ST. LOUIS KV #15 SUNNEN DRIVE, SUITE 104 12	ESTIMATING: KWAME BUILDING GROUP 1204 WASHINGTON AVE. SUITE 200	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR.	RESPONSIBILITY FOR ALL OT PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR O DOCUMENTS OR INSTRUMEN	HER CARE CARE CARE CARE CARE CARE CARE CA	Location HARRY S. TRUMAN VAMC	Drawing Number	Man
te Revisions	ST. LOUIS, MO 63141	ST. LOUIS, MO 63103	ST. LOUIS, MO 63103	COLLINSVILLE, IL 62234	ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS USED FOR ANY PART OF PART O	rs of	Date Checked Drawn Approved MARWIT DAVLAR DAVI		(2)

 1
 2

 5
 5





TELECOMMUNICATIONS VOICE RISER DIAGRAM NO SCALE

1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT. 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. INFORMATION OUTLETS SHOWN ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF INFORMATION OUTLETS AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ORIGINAL SIZE OF SHEET IS 30" X 42"

VA FORM 08-6231 PRINTED ON

24 GAUGE 300-PAIR CATEGORY 3 UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

23 GAUGE 4-PAIR CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

INFORMATION OUTLET LOCATIONS SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF INFORMATION OUTLETS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T601 FOR QUANTITY OF CABLES AND JACK TO BE INSTALLED AT EACH TOPICAL TOPICAL CONFIGURATION OUTLET CONFIGURATION TYPE AND FOR OTHER INDIVIDUAL REQUIREMENTS FOR EACH OUTLET CONFIGURATION TYPE.

4 ALL PATCH CABLES AND CROSS-CONNECTS FURNISHED AND INSTALLED BY OWNER.

TERMINATE 300-PAIR CATEGORY 3 CABLE ON <u>SC-MPP-1</u> SUCH THAT ONE CABLE PAIR IS TERMINATED ON PAIR 1 (PINS 4 AND 5) AND ONE CABLE PAIR IS TERMINATED ON PAIR 3 (PINS 3 AND 6) OF EACH PATCH PANEL PORT.

TELECOMMUNICATIONS DATA RISER DIAGRAM

1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.

2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. INFORMATION OUTLETS SHOWN ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF INFORMATION OUTLETS AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. ACCESS CONTROL SYSTEM AND VIDEO SURVEILLANCE SYSTEM SHALL UTILIZE <u>SC-MPP-1</u> COPPER PATCH PANEL(S) FURNISHED AND INSTALLED BY THIS CONTRACTOR FOR SYSTEM CABLING TERMINATIONS AND SECURITY SYSTEM ETHERNET COMMUNICATIONS. REFER TO 1/T503 AND 2/T503 FOR ADDITIONAL INFORMATION.

12-STRAND OM1 MULTIMODE FIBER OPTIC CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

23 GAUGE 4—PAIR CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

INFORMATION OUTLET LOCATIONS SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF INFORMATION OUTLETS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T601 FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET CONFIGURATION TYPE AND FOR OTHER INDIVIDUAL REQUIREMENTS FOR EACH OUTLET CONFIGURATION TYPE.

4 ALL PATCH CABLES FURNISHED AND INSTALLED BY OWNER.

NO SCALE

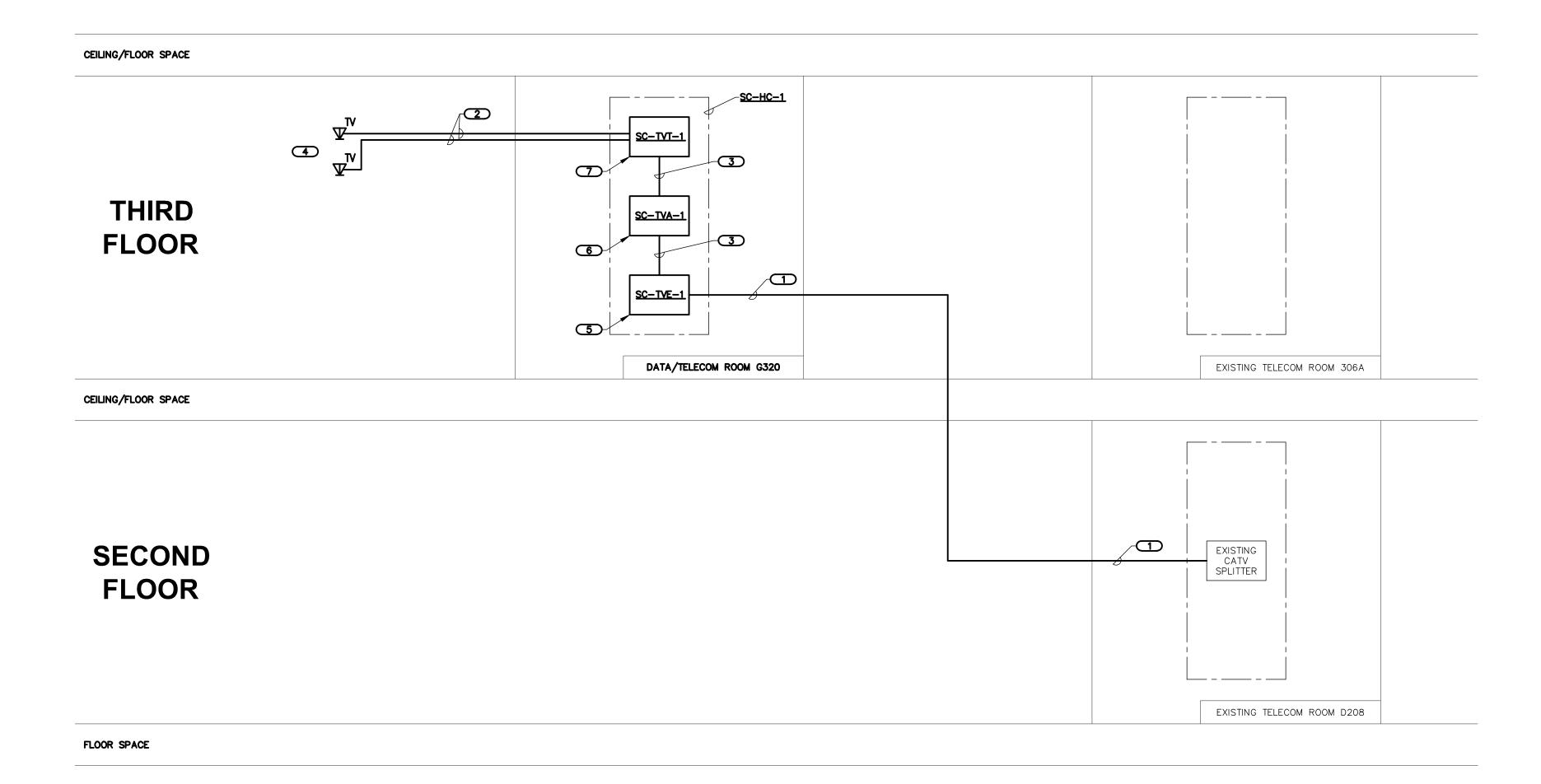
TELECOMMUNICATIONS ROOM REFERENCES

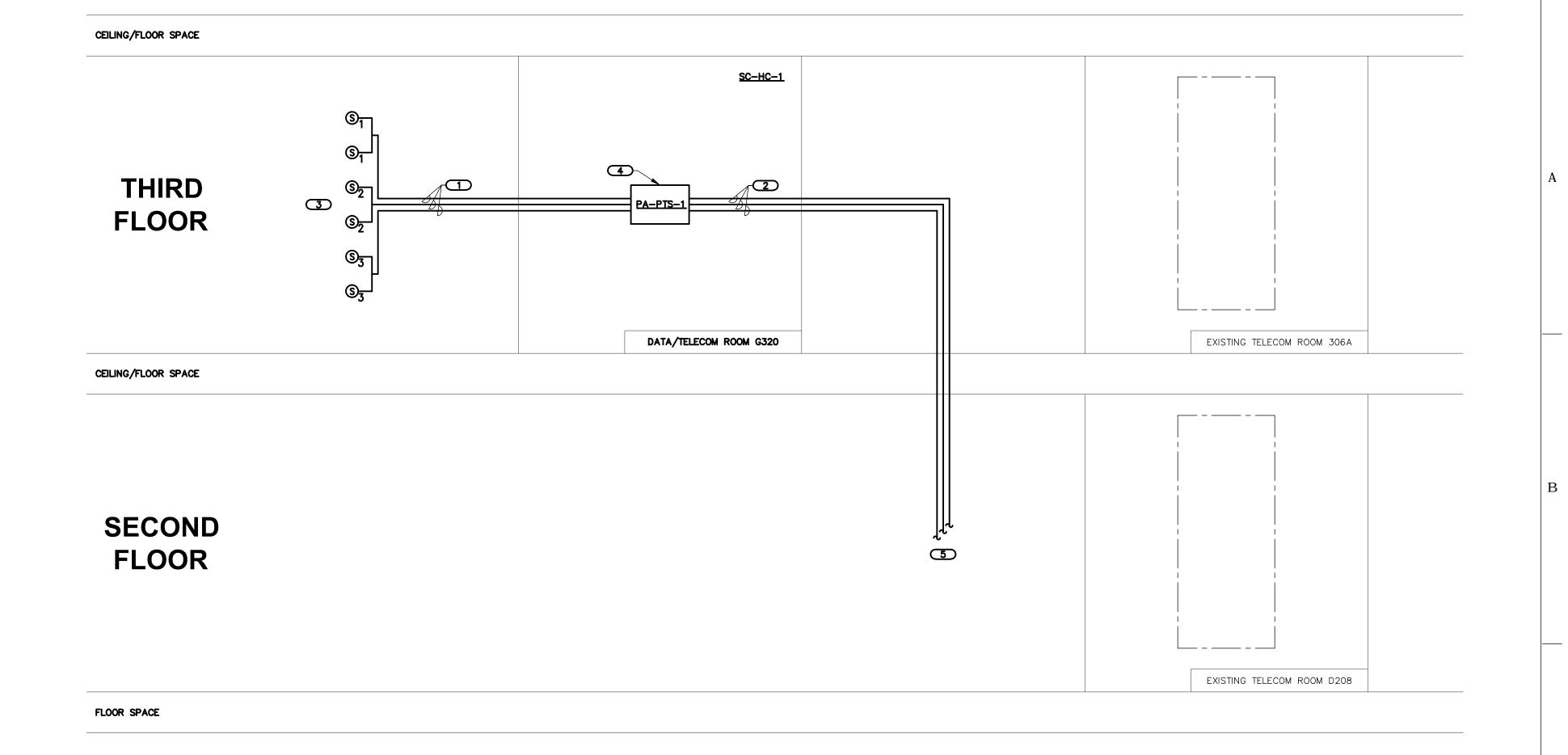
DETAIL / SHEET REFERENCE **ROOM** SC-HC-1 1/T401

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

0 4 8 16 Drawing Title Project Title **Project Number CONSULTANTS:** ARCHITECT/ENGINEERS: INTENSIVE CARE UNIT 589-330 Office of TECHNOLOGY RISER DIAGRAMS THE SEAL (S) AND SIGNATURE(S)
APPLY ONLY TO THE DOCUMENT TO
WHICH THEY ARE AFFIXED, AND WE Construction STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS LIFE SAFETY/FIRE PROTECTION: COMMISSIONING: Building Number 303RD ENGINEERING GROUP, LLC CODE CONSULTANTS, INC. ZODIAC INTERNATIONAL #1 2043 WOODLAND PARKWAY, SUITE 300 16100 CHESTERFIELD PARKWAY, SUITE 365 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET and Facilities CHRISTNER SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 ST. LOUIS, MO 63146 CHESTERFIELD, MO 63017 EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER ASSISTANT DIRECTOR DIRECTOR OF STAFF

ASSOCIATE DIRECTOR OF STAFF
PATIENT SERVICES ASSOCIATE DIRECTOR **Drawing Number** Management MECHANICAL/ELECTRICAL: ESTIMATING: ACOUSTICAL ENGINEERS: **ENVIROMENTAL:** PLANS, SPECIFICATIONS, HARRY S. TRUMAN VAMC KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP ESTIMATES, REPORTS, OR OTHER ACOUSTICONTROL LLC EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. 1204 WASHINGTON AVE. SUITE 200 DOCUMENTS OR INSTRUMENTS #15 SUNNEN DRIVE, SUITE 104 1709 WASHINGTON AVENUE, LOFT 300 ST. LOUIS, MO 63141 ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS | RELATING TO OR INTENDED TO BE ST. LOUIS, MO 63103 ST. LOUIS, MO 63103 COLLINSVILLE, IL Checked Drawn USED FOR ANY PART OF PARTS OF Department of Department or Veterans Affairs THE PROJECT. 168 N MERAMEC, SUITE 400 | ST. LOUIS, MISSOURI 63105 |MARWIT ||DAVLAR ||DAVROU| © COPYRIGHT 2012 CHRISTNER INC. Dwg. 289 of 296 TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM Revisions





1 TELECOMMUNICATIONS CATV RISER DIAGRAM NO SCALE

- 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. INFORMATION OUTLETS SHOWN ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF INFORMATION OUTLETS AND MORE
- SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

 3. PROPERLY BOND ALL CATV DEVICES (TAPS, SPLITTERS, AMPLIFIERS, ETC) EQUIPPED WITH A GROUND LUG TO NEAREST SC—GND—1 WITH MINIMUM SIZE OF 6 AWG COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR). REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE ON DRAWING T505 FOR CONDUCTOR SIZING CRITERIA. REFER TO 2/T505 FOR
- 4. CONTRACTOR TO PROVIDE CATV SYSTEM TO PROVIDE 6dB +/- 3dB OF OUTPUT ON ALL CHANNELS DISTRIBUTED AT ALL CATV INFORMATION OUTLETS. ACTUAL EQUALIZER VALUES/QUANTITY, AMP SIZING/QUANTITY, TAP/SPLITTER VALUES/QUANTITY, AND LAYOUT TO BE INCLUDED IN CONTRACTOR'S FINAL DESIGN. REFER TO SPECIFICATIONS FOR
- 5. ALL CROSS—CONNECTIONS BY THIS CONTRACTOR.
- 5. ALL CROSS—CONNECTIONS BY THIS CONTRACTOR.6. FURNISH AND INSTALL 75—OHM F—CONNECTOR TERMINATOR ON EACH UNUSED DEVICE (SPLITTER, TAP, ETC) PORT.

KEYNOTES:

ORIGINAL SIZE OF SHEET IS 30" X 42"

VA FORM 08-6231 PRINTED ON

- 1 14 GAUGE RG-11 QUAD SHIELDED COAXIAL CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
 2 18 GAUGE RG-6 QUAD SHIELDED COAXIAL CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR CABLE REQUIREMENTS.
- 3 14 GAUGE RG-11 QUAD SHIELDED COAXIAL CABLE F-CONNECTOR TO F-CONNECTOR PATCH CABLES BY THIS CONTRACTOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- INFORMATION OUTLET LOCATIONS SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF INFORMATION OUTLETS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T601 FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET CONFIGURATION TYPE AND FOR OTHER INDIVIDUAL REQUIREMENTS FOR EACH OUTLET CONFIGURATION TYPE.
- 5 PROVIDE WITH VALUES AS NECESSARY TO COMPENSATE FOR FIELD-MEASURED CABLE TILT ON INSTALLED CABLE.
- 6 PROVIDE WITH VALUE AND QUANTITY AS REQUIRED BY CONTRACTOR DESIGN.
- 7 PROVIDE WITH PORTS, VALUES, AND QUANTITY AS REQUIRED BY CONTRACTOR DESIGN.

OVERHEAD PAGING SYSTEM RISER DIAGRAM

- NOTES:

 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND
 EXISTING WORK DIRECTLY BELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE(S). DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 4. PROPERLY BOND ALL DRAIN CONDUCTORS FROM SHIELDED SPEAKER CABLES TO NEAREST <u>SC-GND-1</u> IN CABLE ORIGIN TELECOMMUNICATIONS ROOM ONLY.
- 5. SPEAKER CABLING MAY BE T-TAPPED ONLY AT SPEAKER LOCATIONS. ALL SPEAKER CABLE SPLICES SHALL BE MADE AND HOUSED IN COVERED DEVICE BOXES OR JUNCTION BOXES. CONTRACTOR SHALL SIZE DEVICE BOXES AND JUNCTION BOXES APPROPRIATELY FOR THE AMOUNT OF CABLING SERVED PER APPLICABLE CODES. MAINTAIN CONTINUITY OF DRAIN CONDUCTOR BETWEEN SPLICED CABLES AT ALL SPLICES.
- 6. ALL OVERHEAD PAGING SYSTEM CABLING SHALL BE INSTALLED IN CONDUIT.

KEYNOTES:

NO SCALE

- ONE (1) 18 GAUGE 2—CONDUCTOR SHIELDED CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2 ONE (1) 14 GAUGE 2-CONDUCTOR SHIELDED CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

 3 OVERHEAD PAGING SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF DEVICES AND SPEAKER SYMBOL SUBSCRIPTS FOR ZONE ASSIGNMENT INFORMATION.
- TERMINAL STRIP CONNECTORS TO CONNECT EACH 18/2 SHIELDED SPEAKER CABLE HOME RUN TO 14/2 SHIELDED BACKBONE CABLE. CONTRACTOR SHALL FURNISH AND INSTALL SIZE AND QUANTITY OF OP-PTS-1 REQUIRED FOR THE AMOUNT OF CABLING AND NUMBER OF ZONES SERVED IN EACH TELECOMMUNICATIONS ROOM.
- ROUTE CABLES TO EXISTING OVERHEAD PAGING HEAD END EQUIPMENT IN ROOM A060. FOR BIDDING PURPOSES, ASSUME A TOTAL DISTANCE OF 500 FEET FROM SC-HC-1 DATA/TELECOM ROOM G320 TO ROOM A060.

TELECOMMUNICATIONS ROOM REFERENCES

TELECOM DETAIL / SHEET ROOM REFERENCE

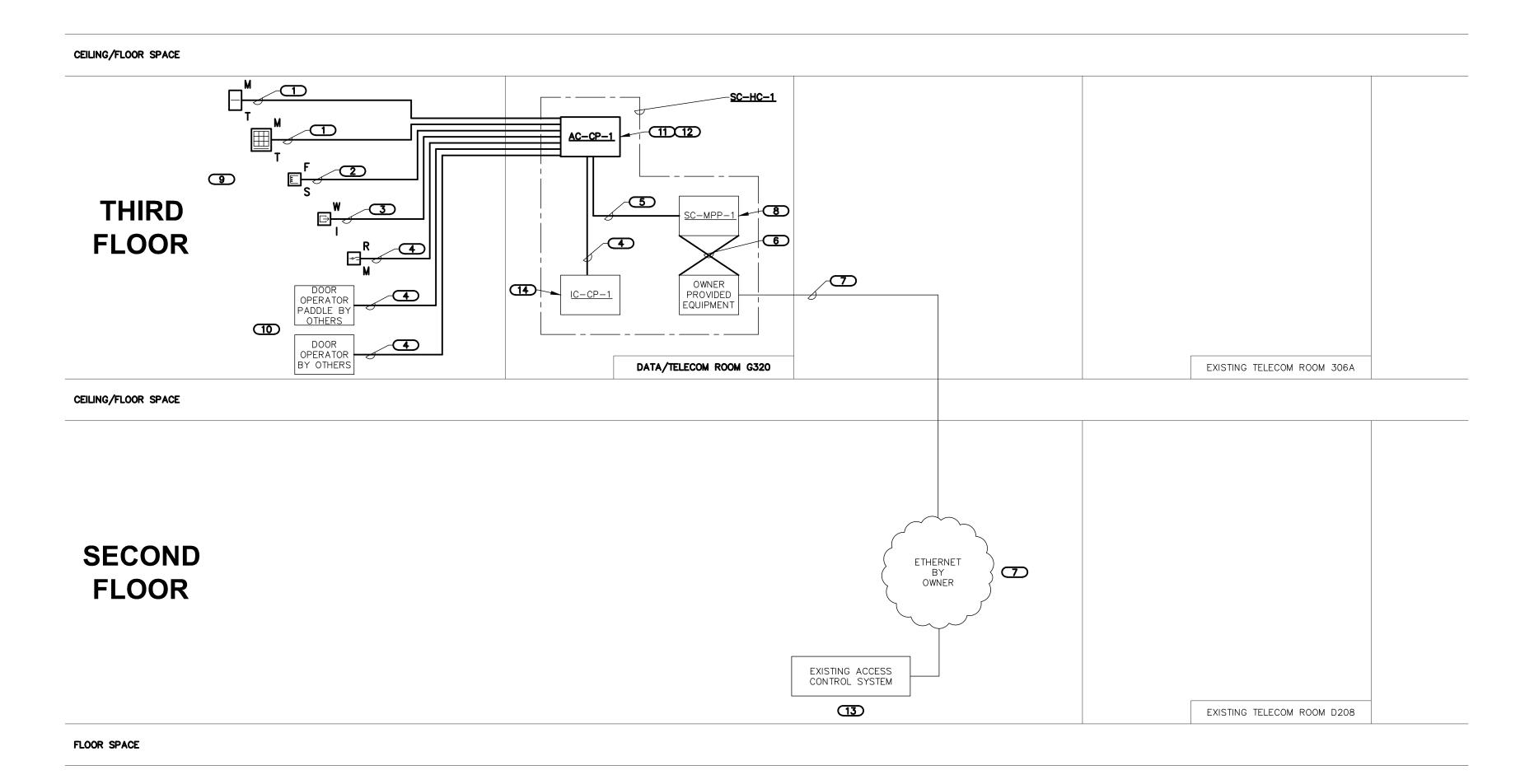
SC-HC-1 1/T401

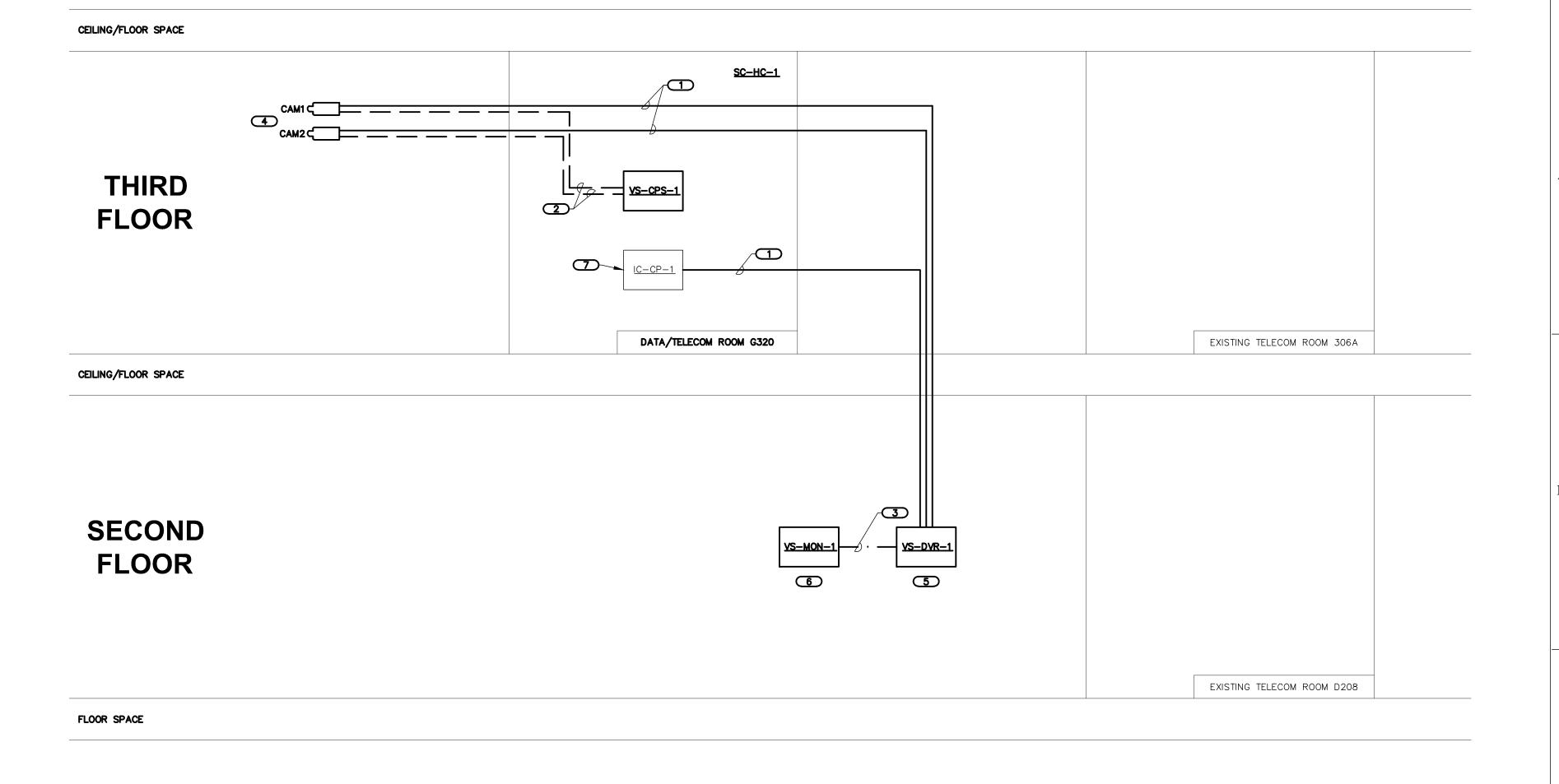
FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

Drawing Title **Project Title Project Number CONSULTANTS:** ARCHITECT/ENGINEERS: INTENSIVE CARE UNIT 589-330 Office of TECHNOLOGY RISER DIAGRAMS STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS Construction THE SEAL (S) AND SIGNATURE(S) LIFE SAFETY/FIRE PROTECTION: COMMISSIONING: Building Number 303RD ENGINEERING GROUP, LLC CODE CONSULTANTS, INC. ZODIAC INTERNATIONAL APPLY ONLY TO THE DOCUMENT TO #1 16100 CHESTERFIELD PARKWAY, SUITE 365 WHICH THEY ARE AFFIXED, AND WE 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET 2043 WOODLAND PARKWAY, SUITE 300 and Facilities CHRISTNER ST. LOUIS, MO 63146 SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 CHESTERFIELD, MO 63017 EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER CHIEF DIRECTOR DIRECTOR STAFF

ASSOCIATE DIRECTOR OF STAFF

ASSOCIATE DIRECTOR OF PATIENT SERVICES ASSOCIATE DIRECTOR **Drawing Number** Management MECHANICAL/ELECTRICAL: **ESTIMATING:** ACOUSTICAL ENGINEERS: **ENVIROMENTAL:** PLANS, SPECIFICATIONS, HARRY S. TRUMAN VAMC EVIRONMENTAL CONSULTANTS, LLC ESTIMATES, REPORTS, OR OTHER KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP ACOUSTICONTROL LLC 1204 WASHINGTON AVE. SUITE 200 DOCUMENTS OR INSTRUMENTS #15 SUNNEN DRIVE, SUITE 104 1709 WASHINGTON AVENUE, LOFT 300 #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. RELATING TO OR INTENDED TO BE ST. LOUIS, MO 63141 ST. LOUIS, MO 63103 ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS ST. LOUIS, MO 63103 COLLINSVILLE, IL Checked Drawn USED FOR ANY PART OF PARTS OF Department or Veterans Affairs THE PROJECT. 168 N MERAMEC, SUITE 400 | ST. LOUIS, MISSOURI 63105 |MARWIT ||DAVLAR ||DAVROU| © COPYRIGHT 2012 CHRISTNER INC. Dwg. 290 of 296 TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM Revisions





ACCESS CONTROL SYSTEM RISER DIAGRAM NO SCALE

- NOTES:

 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. SYSTEM DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF CSS LOCATIONS AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. ALL ACCESS CONTROL SYSTEM CABLING SHALL BE INSTALLED IN CONDUIT.

KEYNOTES: ONE (1) 18/9 SHIELDED PLENUM CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- ONE (1) 14/2 UNSHIELDED PLENUM CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

 WHERE REX IS SPECIFIED IN ACCESS CONTROL SCHEDULE ON DRAWING T602 TO BE A CONNECTION TO DOOR
- 3) WHERE REX IS SPECIFIED IN ACCESS CONTROL SCHEDULE ON DRAWING T602 TO BE A CONNECTION TO DOOR HARDWARE, FURNISH AND INSTALL ONE (1) 18/2 UNSHIELDED PLENUM CABLE. WHERE REX IS SPECIFIED IN ACCESS CONTROL SCHEDULE ON DRAWING T602 TO BE A MOTION—SENSING PIR, FURNISH AND INSTALL ONE (1) 18/4 UNSHIELDED PLENUM CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ONE (1) 18/2 UNSHIELDED PLENUM CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ONE (1) 23 GAUGE 4—PAIR CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- 6 ALL PATCH CABLES FOR ETHERNET CONNECTIONS FOR NEW ACCESS CONTROL EQUIPMENT FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- 7 OWNER'S ETHERNET NETWORK. SHOWN FOR REFERENCE ONLY.

ORIGINAL SIZE OF SHEET IS 30" X 42"

- 8 SC-MPP-1 COPPER PATCH PANEL(S) ARE SHOWN FOR REFERENCE ONLY AND ARE FURNISHED AND INSTALLED AS PART OF THE TELECOMMUNICATIONS CABLING AND SHARED WITH THE ACCESS CONTROL SYSTEM AS SHOWN. REFER TO 2/T501 FOR ADDITIONAL INFORMATION.
- ACCESS CONTROL SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF CSS LOCATIONS. REFER TO ACCESS CONTROL SCHEDULE ON DRAWING T602 FOR INDIVIDUAL REQUIREMENTS AT EACH CSS LOCATION.
- COORDINATE COMPLETION OF CONNECTION TO AND INTEGRATION WITH DOOR OPERATORS AND ASSOCIATED OPERATOR PADDLE SWITCHES BY OTHERS WITH ON-SITE DOOR OPERATOR CONTRACTOR. REFER TO ACCESS CONTROL SCHEDULE ON DRAWING T602 FOR INFORMATION ON DOORS REQUIRING INTEGRATION WITH OPERATORS.
- 11) AC-CP-1 SHOWN ARE TYPICAL. CONTRACTOR TO DETERMINE ACTUAL QUANTITY OF CONTROLLERS REQUIRED FOR DEVICES SHOWN ON PROJECT DOCUMENTS.
- 12 ALL <u>AC-CP-1</u> TO BE PROPERLY BONDED TO NEAREST <u>SC-GND-1</u> WITH MINIMUM SIZE OF 6 AWG COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR). REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE ON DRAWING T505 FOR CONDUCTOR SIZING CRITERIA. REFER TO 2/T505 FOR ADDITIONAL INFORMATION.
- COORDINATE CONNECTION TO AND INTEGRATION WITH EXISTING ACCESS CONTROL SYSTEM, ALL NECESSARY PROGRAMMING, AND TESTING WITH OWNER. EXISTING ACCESS CONTROL SYSTEM SERVER AND CONTROL
- WORKSTATION LOCATED IN EXISTING SECURITY OFFICE.

 14 CONNECTION TO VIDEO INTERCOM SYSTEM TO FACILITATE REMOTE UNLOCKING OF DOOR EQUIPPED WITH VIDEO INTERCOM STATION VIA VIDEO INTERCOM MASTER STATION. REFER TO 2/T504 FOR ADDITIONAL INFORMATION. IC—CP—1 IS FURNISHED AN INSTALLED AS PART OF VIDEO INTERCOM SYSTEM AND IS SHOWN FOR REFERENCE ONLY.

VIDEO SURVEILLANCE SYSTEM RISER DIAGRAM

- NOTES:

 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO
- 3. ALL VIDEO SURVEILLANCE SYSTEM CAMERA CABLING SHALL BE INSTALLED IN CONDUIT.

NO SCALE

KEYNOTES: ONE (1) 18 GAUGE RG-6 95% BARE COPPER BRAID SHIELD (NO FOIL SHIELD) COAXIAL CABLE. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

- ONE (1) 16 GAUGE 2-CONDUCTOR UNSHIELDED CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- 3 ONE (1) VGA VIDEO CABLE. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- VIDEO SURVEILLANCE SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF VIDEO SURVEILLANCE CAMERAS. REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA TYPE SCHEDULE AND CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON DRAWING T602 FOR INDIVIDUAL REQUIREMENTS FOR
- 5 VIDEO CABLES ROUTE DIRECTLY TO NEW <u>VS-DVR-1</u> UNIT(S) LOCATED IN EXISTING SECURITY OFFICE. FOR BIDDING PURPOSES, ASSUME A DISTANCE OF 500 FEET FROM <u>SC-HC-1</u> DATA/TELECOM ROOM G320 TO EXISTING SECURITY OFFICE. COORDINATE CONNECTION TO AND INTEGRATION WITH EXISTING VIDEO SURVEILLANCE SYSTEM, ALL NECESSARY PROGRAMMING, AND TESTING WITH OWNER.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) NEW <u>VS-MON-1</u> MONITOR AT EXISTING VIDEO SURVEILLANCE SYSTEM MONITORING STATION IN EXISTING SECURITY OFFICE FOR EACH NEW <u>VS-DVR-1</u> INSTALLED AS PART OF THIS PROJECT.
- CONNECTION TO VIDEO INTERCOM SYSTEM TO FACILITATE RECORDING OF VIDEO FROM INTEGRATED VIDEO CAMERA OF VIDEO INTERCOM STATION. REFER TO 2/T504 FOR ADDITIONAL INFORMATION. IC-CP-1 IS FURNISHED AN INSTALLED AS PART OF VIDEO INTERCOM SYSTEM AND IS SHOWN FOR REFERENCE ONLY.

TELECOMMUNICATIONS ROOM REFERENCES TELECOM DETAIL / SHEET

SC-HC-1

REFERENCE

1/T401

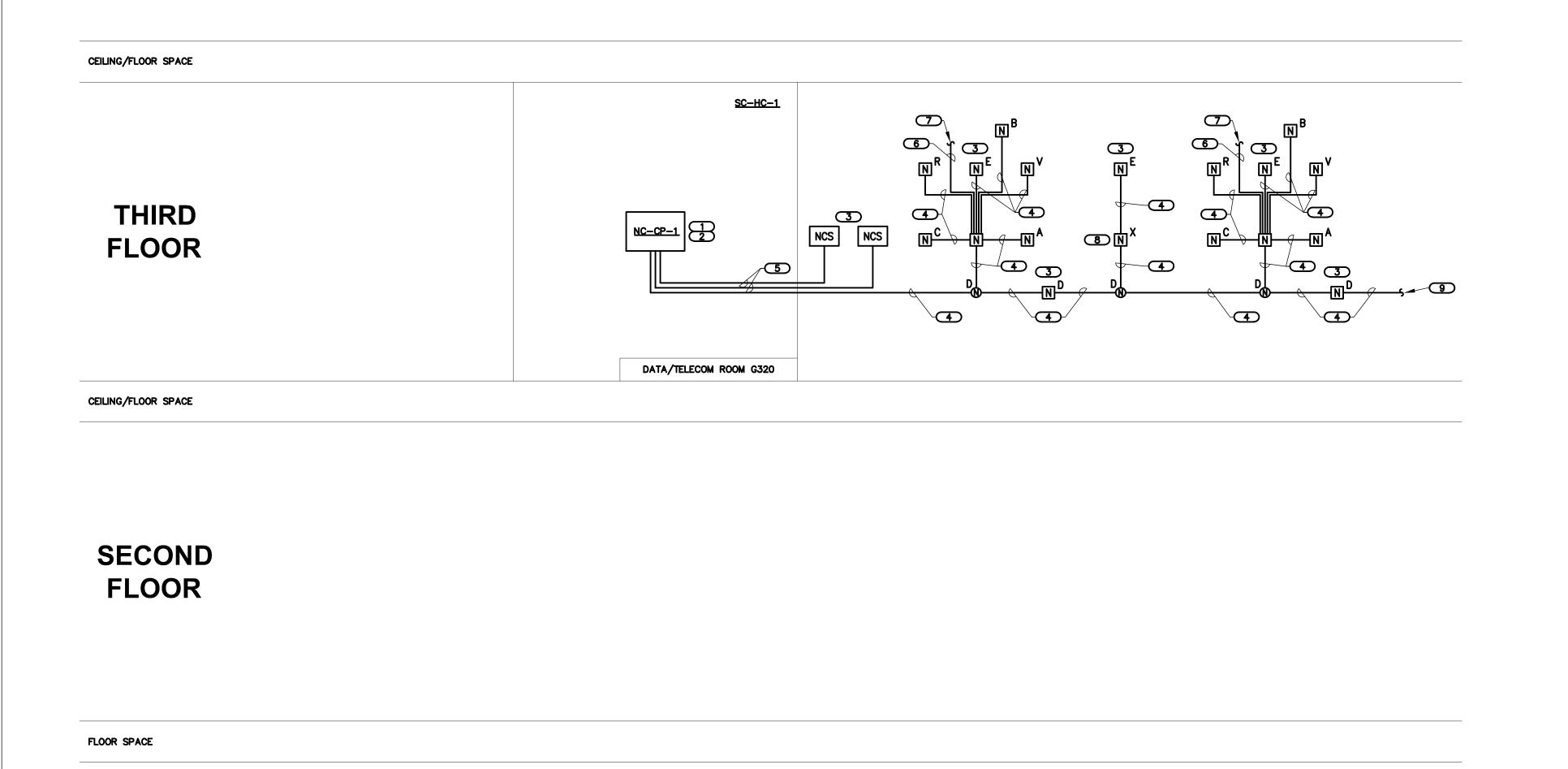
FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

Drawing Title **Project Title Project Number CONSULTANTS:** ARCHITECT/ENGINEERS: **INTENSIVE CARE UNIT** 589-330 Office of **TECHNOLOGY RISER DIAGRAMS** Construction THE SEAL (S) AND SIGNATURE(S) LIFE SAFETY/FIRE PROTECTION Building Number COMMISSIONING: KPFF CONSULTING ENGINEERS - ST. LOUIS APPLY ONLY TO THE DOCUMENT TO 303RD ENGINEERING GROUP, LLC CODE CONSULTANTS, INC. ZODIAC INTERNATIONAL #1 2043 WOODLAND PARKWAY, SUITE 300 16100 CHESTERFIELD PARKWAY, SUITE 365 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET WHICH THEY ARE AFFIXED, AND WE and Facilities CHRISTNER SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 ST. LOUIS, MO 63146 CHESTERFIELD, MO 63017 EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER CHIEF DIRECTOR DIRECTOR STAFF

ASSOCIATE DIRECTOR OF STAFF

ASSOCIATE DIRECTOR OF PATIENT SERVICES **Drawing Number** ASSOCIATE DIRECTOR Management MECHANICAL/ELECTRICAL: **ESTIMATING:** ACOUSTICAL ENGINEERS: **ENVIROMENTAL:** PLANS, SPECIFICATIONS. HARRY S. TRUMAN VAMC KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP ACOUSTICONTROL LLC EVIRONMENTAL CONSULTANTS, LLC ESTIMATES, REPORTS, OR OTHER 1204 WASHINGTON AVE. SUITE 200 #15 SUNNEN DRIVE, SUITE 104 1709 WASHINGTON AVENUE, LOFT 300 #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE ST. LOUIS, MO 63141 ST. LOUIS, MO 63103 ST. LOUIS, MO 63103 COLLINSVILLE, IL ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS Checked Drawn USED FOR ANY PART OF PARTS OF Department of Veterans Affairs 168 N MERAMEC, SUITE 400 | ST. LOUIS, MISSOURI 63105 THE PROJECT. |MARWIT ||DAVLAR ||DAVROU| © COPYRIGHT 2012 CHRISTNER INC. Dwg. 291 of 296 TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM Revisions

VA FORM 08-6231 PRINTED ON



NURSE CALL SYSTEM RISER DIAGRAM NO SCALE

- 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. ALL SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. COORDINATE ALL FINAL CABLE REQUIREMENTS WITH MANUFACTURER OF APPROVED NURSE CALL SYSTEM. ALL NURSE CALL SYSTEM CABLING SHALL BE INSTALLED IN CONDUIT.

ORIGINAL SIZE OF SHEET IS 30" X 42"

VA FORM 08-6231 PRINTED ON

- COORDINATE CONNECTION TO AND INTEGRATION WITH EXISTING NURSE CALL SYSTEM, ALL NECESSARY PROGRAMMING, AND TESTING WITH VA HOSPITAL FACILITY STAFF.
- NC-CP-1 TO BE PROPERLY BONDED TO NEAREST SC-GND-1 WITH MINIMUM SIZE OF 6 AWG COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR). REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE ON DRAWING T505 FOR CONDUCTOR SIZING CRITERIA. REFER TO
- DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF SYSTEM DEVICES.
- ONE (1) 24 GAUGE 4—PAIR CATEGORY 5E UNSHIELDED TWISTED PAIR CABLE. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- 5 ONE (1) 18 AWG 9—PAIR SHIELDED CABLE. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- 6 ONE (1) 18 AWG 2-CONDUCTOR CABLE. REFER TO SPECIFICATIONS FOR REQUIREMENTS. CONNECTION TO RELAY FOR LIGHTING CONTROL. RELAY PROVIDED WITH LUMINAIRE FIXTURE BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL LIGHTING PLANS FOR LOCATIONS OF LUMINAIRE FIXTURES AND ADDITIONAL INFORMATION.
- B DEVICES NOT LOCATED IN A PATIENT ROOM WITH AN ASSOCIATED PATIENT STATION CONNECT TO A LOCAL CONTROLLER WHICH, IN TURN, CONNECTS TO THE SYSTEM IN THE SAME MANNER AS A PATIENT STATION.
- 9 DOME LIGHTS AND DUTY STATIONS MAY NOT BE T-TAPPED. EACH BUSS CIRCUIT CABLE SHALL BE ROUTED TO SERVE AN EQUAL NUMBER OF DEVICES.

CEILING/FLOOR SPACE SC-HC-1 **THIRD** 4 **FLOOR** EXISTING TELECOM ROOM 306A DATA/TELECOM ROOM G320 CEILING/FLOOR SPACE SECOND **FLOOR** EXISTING TELECOM ROOM D208 FLOOR SPACE

VIDEO INTERCOM SYSTEM RISER DIAGRAM NO SCALE

- 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE(S). DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. ALL NECESSARY CONNECTIONS, PROGRAMMING, AND TESTING TO BE COMPLETED BY THIS CONTRACTOR.
- 4. ALL VIDEO INTERCOM SYSTEM CABLING SHALL BE INSTALLED IN CONDUIT.

KEYNOTES:

- ONE (1) 24 GAUGE CATEGORY 5E UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ONE (1) TWO CONDUCTOR 18 GAUGE UNSHIELDED CABLE. CABLE PROVIDED AS PART OF THE ACCESS CONTROL SYSTEM AND IS SHOWN FOR REFERENCE ONLY.
- ONE (1) 18 GAUGE RG-6 95% BARE COPPER BRAID SHIELD (NO FOIL SHIELD) COAXIAL CABLE. CABLE PROVIDED AS PART OF THE VIDEO SURVEILLANCE SYSTEM AND IS SHOWN FOR REFERENCE ONLY.
- 4 INTERCOM SYSTEM DEVICES SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND

LOCATIONS OF VIDEO INTERCOM STATIONS AND VIDEO INTERCOM MASTER STATIONS.

- 5 <u>VS-DVR-1</u> IS FURNISHED AND INSTALLED AS PART OF THE VIDEO SURVEILLANCE SYSTEM AND IS SHOWN FOR REFERENCE ONLY. REFER TO 2/T503 FOR ADDITIONAL INFORMATION.
- 6 AC-CP-1 IS FURNISHED AND INSTALLED AS PART OF THE ACCESS CONTROL SYSTEM AND IS SHOWN FOR REFERENCE ONLY. REFER TO 1/T503 FOR ADDITIONAL INFORMATION.
- 7 <u>IC-CP-1</u> TO BE PROPERLY BONDED TO NEAREST <u>SC-GND-1</u> WITH MINIMUM SIZE OF 6 AWG COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR). REFER TO GROUNDING CONDUCTOR SIZING SCHEDULE ON DRAWING T505 FOR CONDUCTOR SIZING CRITERIA. REFER TO 2/T505 FOR ADDITIONAL INFORMATION.

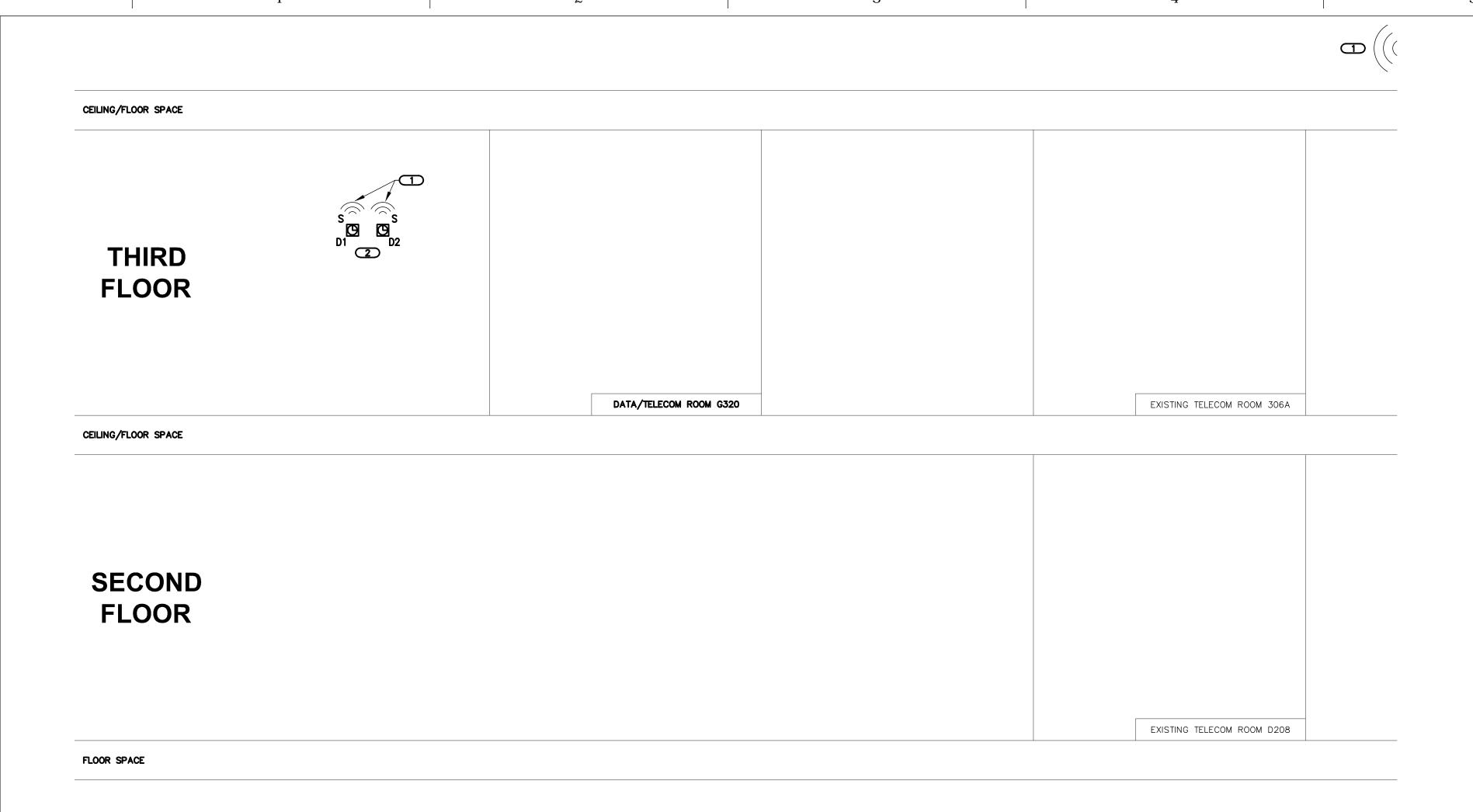
TELECOMMUNICATIONS ROOM REFERENCES DETAIL / SHEET REFERENCE **ROOM** SC-HC-1 1/T401

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

0 4 8 16 Drawing Title Project Title **Project Number CONSULTANTS:** ARCHITECT/ENGINEERS: INTENSIVE CARE UNIT 589-330 Office of TECHNOLOGY RISER DIAGRAMS STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS Construction LIFE SAFETY/FIRE PROTECTION: THE SEAL (S) AND SIGNATURE(S) COMMISSIONING: Building Number 303RD ENGINEERING GROUP, LLC CODE CONSULTANTS, INC. ZODIAC INTERNATIONAL APPLY ONLY TO THE DOCUMENT TO #1 16100 CHESTERFIELD PARKWAY, SUITE 365 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET 2043 WOODLAND PARKWAY, SUITE 300 WHICH THEY ARE AFFIXED, AND WE and Facilities CHRISTNER SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 ST. LOUIS, MO 63146 CHESTERFIELD, MO 63017 EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER CHIEF DIRECTOR DIRECTOR STAFF

ASSOCIATE DIRECTOR OF STAFF

ASSOCIATE DIRECTOR OF PATIENT SERVICES ASSOCIATE DIRECTOR **Drawing Number** Management MECHANICAL/ELECTRICAL: **ESTIMATING:** ACOUSTICAL ENGINEERS: **ENVIROMENTAL:** PLANS, SPECIFICATIONS, HARRY S. TRUMAN VAMC ESTIMATES, REPORTS, OR OTHER KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP ACOUSTICONTROL LLC EVIRONMENTAL CONSULTANTS, LLC #15 SUNNEN DRIVE, SUITE 104 DOCUMENTS OR INSTRUMENTS 1204 WASHINGTON AVE. SUITE 200 1709 WASHINGTON AVENUE, LOFT 300 #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. ST. LOUIS, MO 63141 ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS | RELATING TO OR INTENDED TO BE ST. LOUIS, MO 63103 ST. LOUIS, MO 63103 COLLINSVILLE, IL Checked Drawn USED FOR ANY PART OF PARTS OF Department or Veterans Affairs THE PROJECT. 168 N MERAMEC, SUITE 400 | ST. LOUIS, MISSOURI 63105 |MARWIT ||DAVLAR ||DAVROU| © COPYRIGHT 2012 CHRISTNER INC. Dwg. 292 of 296 TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM Revisions



SC-HC-1 MEAREST ELECTRICAL PANEL CABLE TRAY (CONTINUOUS EXISTING WALL MOUNT — TELECOMMUNICATIONS GROUNDING BUSBAR SC-GND-1 1 THIRD FLOOR TELECOMMUNICATIONS
BONDING BACKBONE (TBB). METALLIC CONDUIT SLEEVES — (HORIZONTAL AND VERTICAL) BONDING CONDUCTOR (BC) DATA/TELECOM ROOM G320 EXISTING TELECOM ROOM 306A CEILING/FLOOR SPACE SECOND **FLOOR** EXISTING TELECOM ROOM D208 FLOOR SPACE

SYNCHRONIZED CLOCK SYSTEM RISER DIAGRAM NO SCALE

- 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO
- 3. ALL NECESSARY CONNECTIONS, PROGRAMMING, AND TESTING TO BE COMPLETED BY THIS CONTRACTOR.

VA FORM 08-6231 PRINTED ON

- KEYNOTES:

 1 EXISTING BUILDING-WIDE TRANSMITTER TRANSMITS SIGNAL TO CLOCKS WIRELESSLY VIA RADIO FREQUENCY TRANSMISSION.
- WIRELESS SYNCHRONIZED CLOCK SYSTEM CLOCKS SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF CLOCKS.

GROUNDING CONDUCTOR SIZING SCHEDULE CONDUCTOR LENGTH IN FEET MINIMUM ACCEPTABLE SIZE - AWG LESS THAN 13' 6 14' - 20' 4 21' - 26' 3 27' - 33' 2 34' - 41' 1 42' - 52' 1/0

2/0

3/0

53' - 66'

GREATER THAN 66'

CEILING/FLOOR SPACE

TELECOMMUNICATIONS ROOM REFERENCES TELECOM DETAIL / SHEET ROOM REFERENCE SC-HC-1 1/T401

TELECOMMUNICATIONS BONDING RISER DIAGRAM

- NOTES:

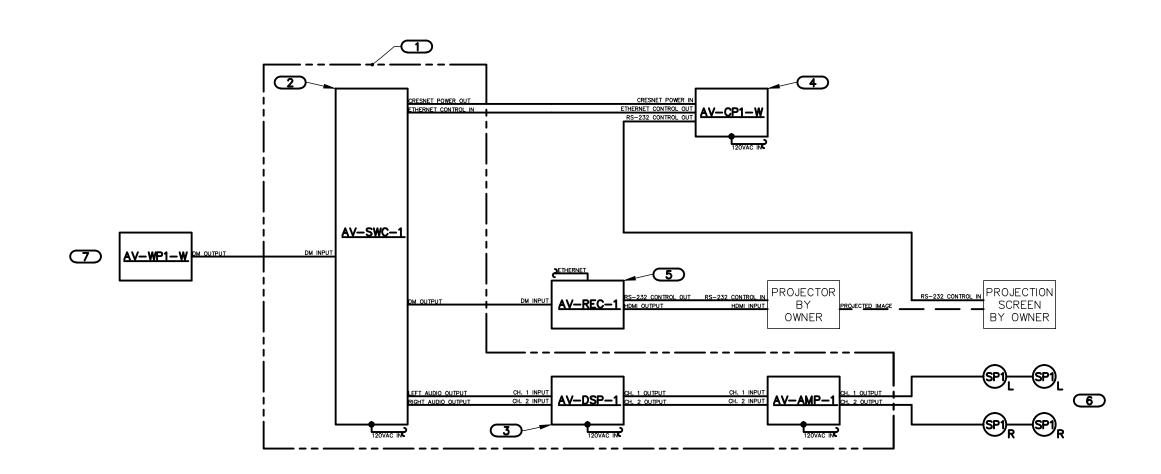
 1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.
- 2. THIS DETAIL IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. ALL NEWLY INSTALLED CONDUCTORS IN THE COMMUNICATIONS BONDING SYSTEM SHALL BE MINIMUM SIZE OF 6 AWG COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR). REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS 13 FEET OR GREATER IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 4. ALL NEWLY INSTALLED GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT.
- 5. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.

KEYNOTES:

REFER TO 5/T601 AND GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM <u>SC-GND-1</u> FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

	CONSULTANTS:				ARCHITECT/ENGINEERS:	Drawing Title TECHNOLOGY RISER DIAGRAMS	Project Title INTENSIVE CARE UNIT	Project Number 589-330	Office of
	STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131 MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUI #15 SUNNEN DRIVE, SUITE 104	KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET 2043 WOODLAND PARKWAY, SUITE 300 SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146 ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC		COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017 ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR.	THE SEAL (S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT WHICH THEY ARE AFFIXED, AND W EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS	DIRECTOR OF SPECIALTY CONTROL PRACTITIONER PROGREER ASSISTANT DIRECTOR OF PATIENT SERVICES ASSOCIATE DIRECTOR D	Location HARRY S. TRUMAN VAMC	Building Number #1 Drawing Number	Construction and Facilities Management
No. Date Revisions	ST. LOUIS, MO 63141	1204 WASHINGTON AVE. SUITE 200 ST. LOUIS, MO 63103	1709 WASHINGTON AVENUE, LOFT 300 ST. LOUIS, MO 63103	COLLINSVILLE, IL 62234	ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS 168 N MERAMEC, SUITE 400 ST. LOUIS, MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO B USED FOR ANY PART OF PARTS C THE PROJECT. © COPYRIGHT 2012 CHRISTNER IN	F	Date Checked Drawn App 08/22/2014 MARWIT DAVLAR DA	T505 AVROU Dwg. 293 of 296	Department of Veterans Affairs



CONFERENCE ROOM G324 A/V SYSTEM RISER DIAGRAM

NO SCALE

VA FORM 08-6231 **PRINTED ON**

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- KEYNOTES:

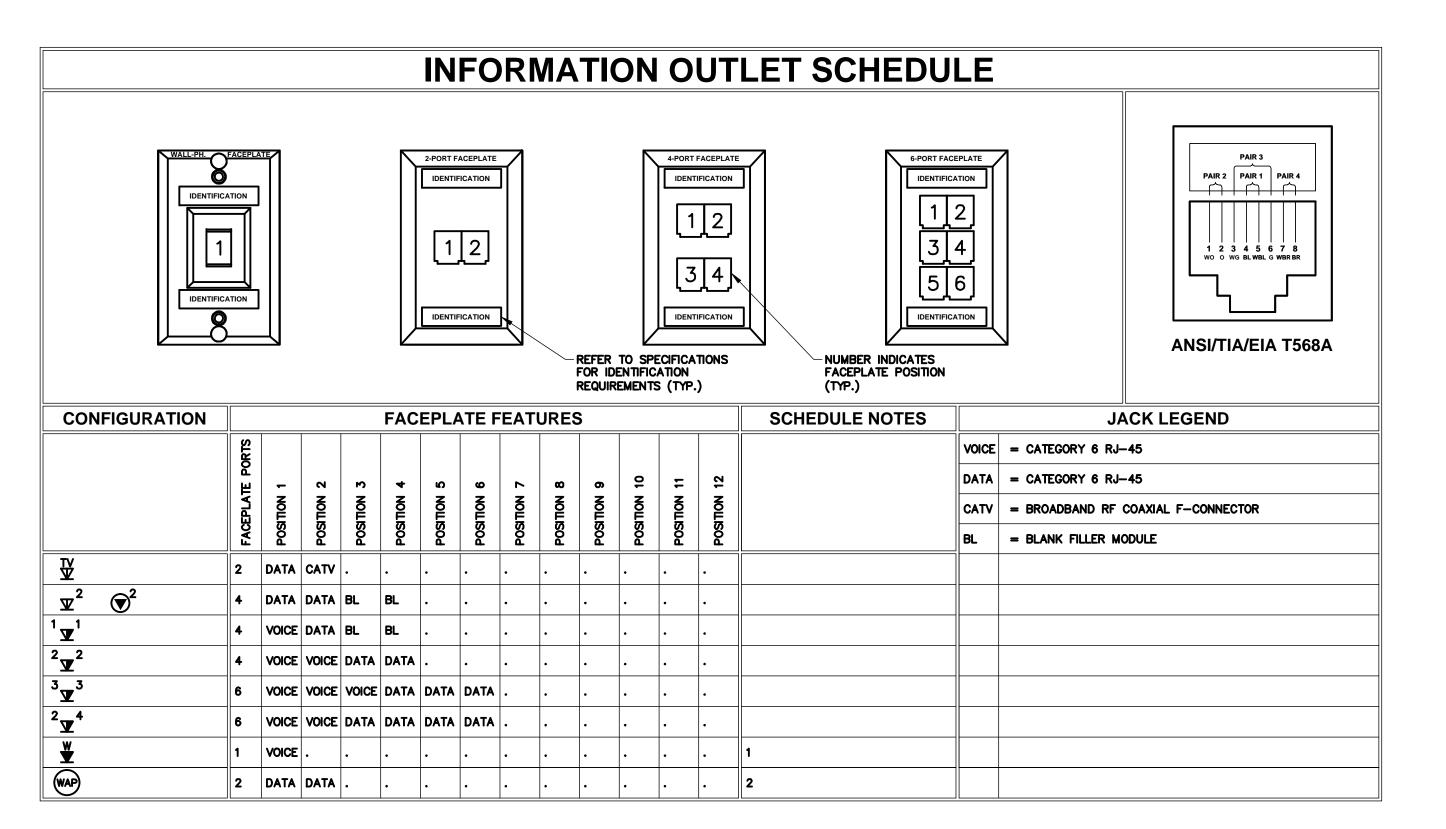
 1 EQUIPMENT LOCATED IN SC-ER-1 EQUIPMENT RACK LOCATED IN SC-HC-1 TELECOM ROOM G320. REFER TO 1/TC104 FOR LOCATION OF SC-HC-1 TELECOM ROOM G320. REFER TO 3/T401 FOR RACK ELEVATION.
- 2 <u>AV-SWC-1</u> CONFIGURED TO ACCEPT STEREO AUDIO AND VIDEO FROM ALL SOURCES, ROUTE STEREO AUDIO FROM SELECTED SOURCE TO STEREO AUDIO OUTPUTS, ROUTE VIDEO FROM SELECTED SOURCE TO <u>AV-REC-1</u>, AND PROVIDE AUTOMATIC EDID CONTROL TO MATCH VIDEO INPUT RESOLUTION WITH VIDEO OUTPUT RESOLUTION.
- 3 <u>AV-DSP-1</u> DIGITAL SIGNAL PROCESSOR CONFIGURED TO ACCEPT STEREO LINE-LEVEL AUDIO SIGNAL, APPLY CORRECTIVE EQUALIZATION, PROVIDE LIMITING TO PROTECT SPEAKERS FROM DAMAGE, AND OUTPUT PROCESSED STEREO SIGNAL TO <u>AV-AMP-1</u>. CONTRACTOR SHALL UTILIZE LATEST VERSION OF PROCESSOR SETTINGS FROM SPEAKER MANUFACTURER THAT HAVE BEEN CUSTOM-CONFIGURED FOR SPECIFIC MODEL OF SPEAKERS AND <u>AV-DSP-1</u> DIGITAL SIGNAL PROCESSOR INSTALLED, WHERE AVAILABLE.
- PROGRAMMABLE BUTTONS ON <u>AV-CP-1</u> CONFIGURED TO PROVIDE SYSTEM POWER ON/OFF, INPUT SELECTION FROM <u>AV-WP1-W</u> FACEPLATE (HDMI, VGA, COMPONENT, COMPOSITE), SCREEN DOWN/UP/STOP CONTROL OF OWNER'S PROJECTION SCREEN, IMAGE MUTE CONTROL OF OWNER'S PROJECTOR, AND AUDIO PROGRAM VOLUME ADJUSTMENT. REFER TO FLOOR PLANS FOR LOCATION.
- 5 INSTALL AT OWNER'S PROJECTOR. REFER TO FLOOR PLANS FOR LOCATION.
- 6 TAP SPEAKERS AT 30 WATTS. REFER TO FLOOR PLANS FOR LOCATIONS.
- 7 REFER TO FLOOR PLANS FOR LOCATION.

TELECOMMUNICATIONS ROOM REFERENCES DETAIL / SHEET ROOM REFERENCE

SC-HC-1

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

]	CONSULTANTS:				ARCHITECT/ENGINEERS:	Drawing Title TECHNO	LOGY RISER DIAGRAMS	Project Title INTENSIV	E CARE UNIT		Project Number 589-330	Office of
	STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	THE SEAL (S) AND SIGNATURED APPLY ONLY TO THE DOCUMENT WHICH THEY ARE AFFIXED, AN EXPRESSLY DISCLAIM ANY	TO WE					Building Number #1	Construction and Facilities
	MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS #15 SUNNEN DRIVE, SUITE 104	1204 WASHINGTON AVE. SUITE 200	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR.	RESPONSIBILITY FOR ALL OTHI PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTH DOCUMENTS OR INSTRUMENTS	DIRECTOR OF INFECTION	CHIEF ENGINEER ASSISTANT DIRECTOR DIRECTOR OF PATIENT SERVICES CHIEF OF STAFF DIRECTOR DIRECTOR DIRECTOR DIRECTOR	Location HARRY S.	TRUMAN VAN	ЛС	Drawing Number	Management
No. Date Revisions	ST. LOUIS, MO 63141	ST. LOUIS, MO 63103	ST. LOUIS, MO 63103	COLLINSVILLE, IL 62234	ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS RELATING TO OR INTENDED TO USED FOR ANY PART OF PARTS THE PROJECT. TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM © COPYRIGHT 2012 CHRISTNER	DF NC.		Date 08/22/2014	Checked Dra	awn Ap	proved T506 AVROU Dwg. 294 of 296	Department of Veterans Affairs

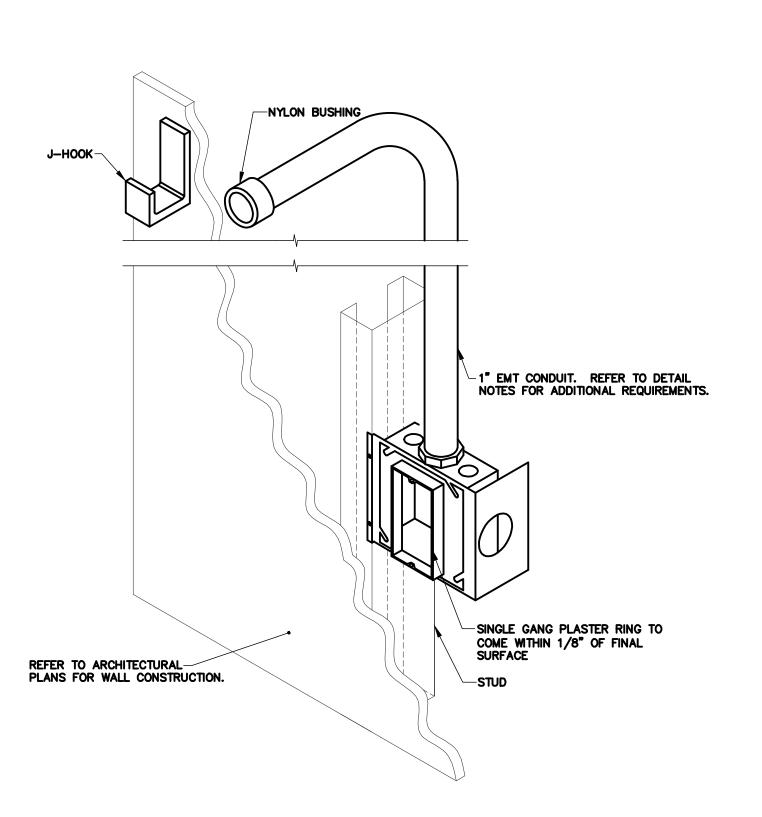


- 1. PROVIDE REMOVABLE BLANK INSERT FOR UNUSED PORTS.
- 2. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS.
- 3. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATION.
- 4. JACKS SHALL BE CONFIGURED PER ANSI/TIA/EIA T568A REQUIREMENTS. 5. REFER TO 1/T501 FOR TELECOMMUNICATIONS VOICE RISER DIAGRAM
- 6. REFER TO 2/T501 FOR TELECOMMUNICATIONS DATA RISER DIAGRAM.
- 7. REFER TO 1/T502 FOR TELECOMMUNICATIONS CATV RISER DIAGRAM.

SCHEDULE NOTES:

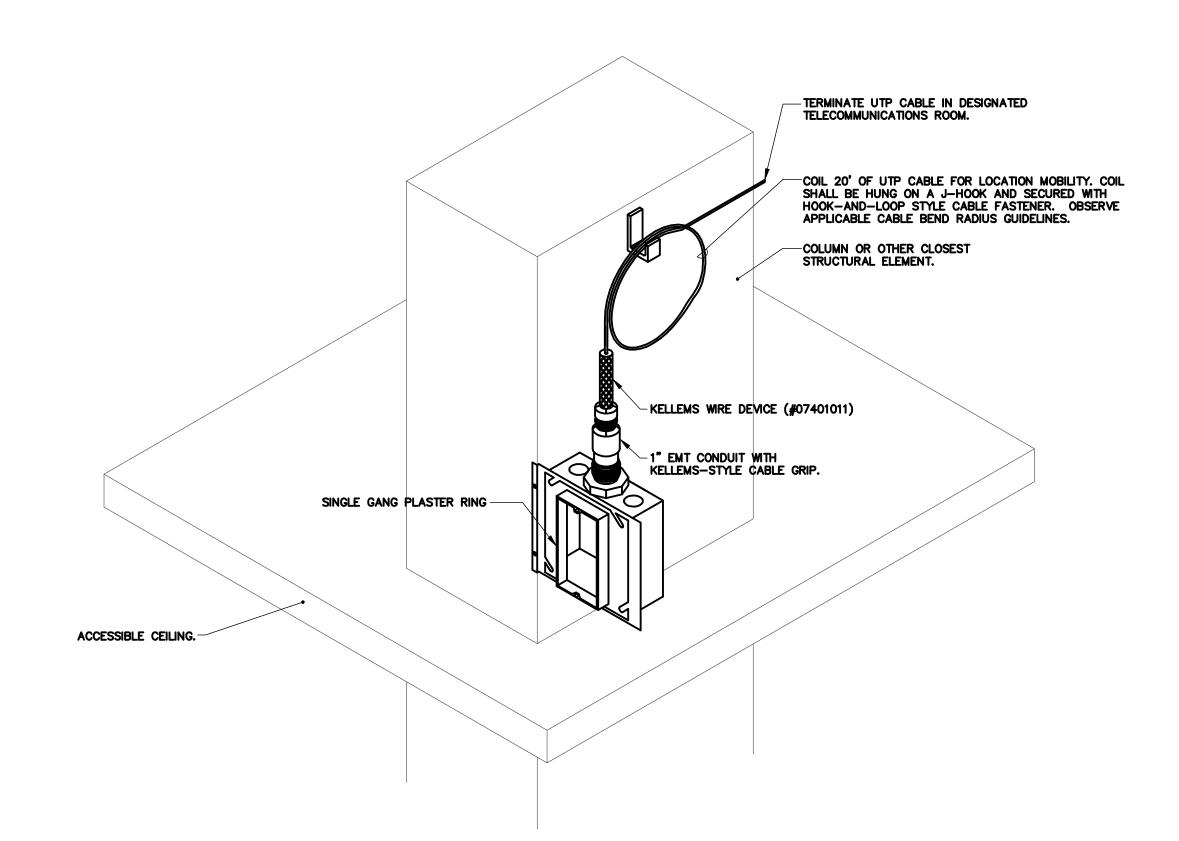
VA FORM 08-6231 PRINTED ON

- 1. PROVIDE STAINLESS STEEL FACEPLATE WITH MATING LUGS FOR WALL HUNG PHONE.
- 2. LOCATION OF FUTURE WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER FUTURE RF SURVEY.



TECHNOLOGY ROUGH-IN MOUNTING DETAIL

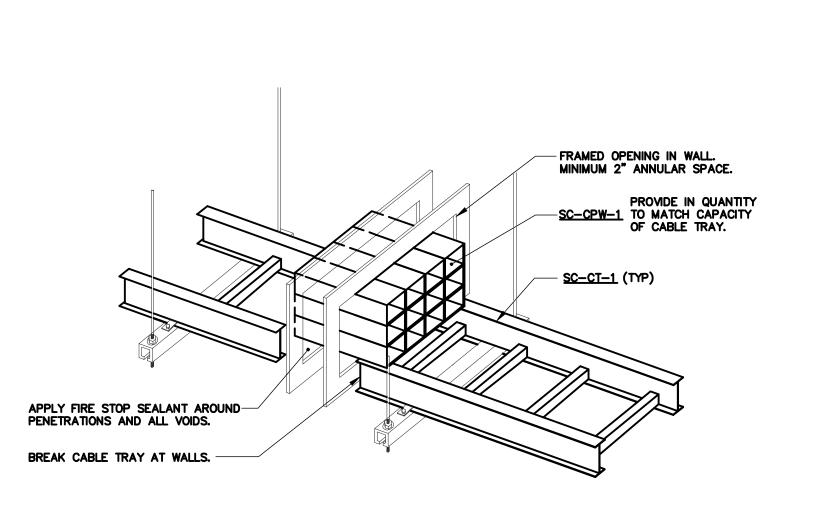
- 1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
- WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
- 3. WHERE CONDUIT STUBS THROUGH A WALL IN TO A CORRIDOR AND TERMINATES AT AN ASSOCIATED J-HOOK ROUTE, THE CONDUIT SHOULD EXTEND NOT MORE THAN 2-4 INCHES IN TO THE CORRIDOR. WHERE CONDUIT STUBS TO AN ASSOCIATED CABLE TRAY, CONDUIT SHOULD EXTEND TO CABLE TRAY.
- 4. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
- 5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH—INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



TECHNOLOGY WIRELESS ROUGH-IN MOUNTING DETAIL

OR TO ANY ASSOCIATED WIRELESS NETWORK HARDWARE.

- 1. INSTALLING CONTRACTOR SHALL MAINTAIN RATING OF ANY FIRE BARRIER, FIRE STOP, OR OTHER PROTECTIVE COATING APPLIED TO STRUCTURAL ELEMENTS PRIOR TO INSTALLATION OF WIRELESS INFORMATION OUTLET LOCATION ROUGH—IN. COORDINATE WITH ON—SITE GENERAL CONTRACTOR.
- 2. COORDINATE EXACT LOCATION ON SITE WITH WORK BY OTHER TRADES TO ENSURE SERVICE ACCESS TO WIRELESS INFORMATION OUTLET AFTER COMPLETION OF PROJECT AND TO MINIMIZE ANY POSSIBLE DAMAGE TO INSTALLED INFORMATION OUTLET, ASSOCIATED TELECOMMUNICATIONS CABLE,

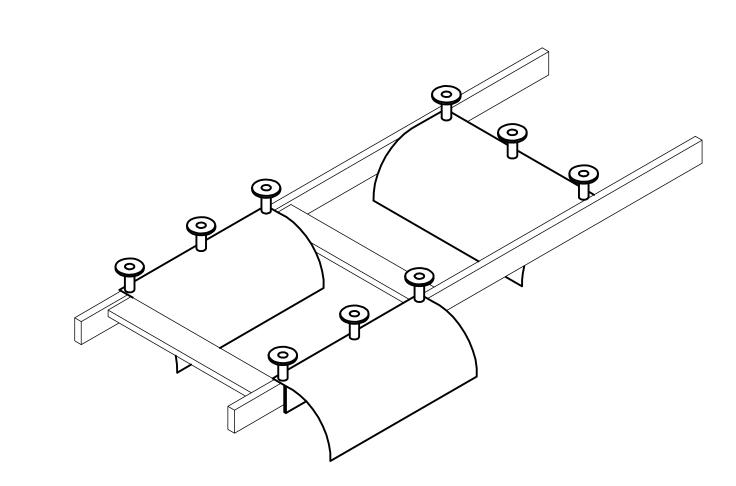


FIRE RATED CABLE PATHWAY DETAIL

1. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR DESCRIPTION OF $\underline{\text{SC-CT-1}}$, LADDER TYPE CABLE TRAY IS SHOWN ONLY FOR CLARITY OF ILLUSTRATION.

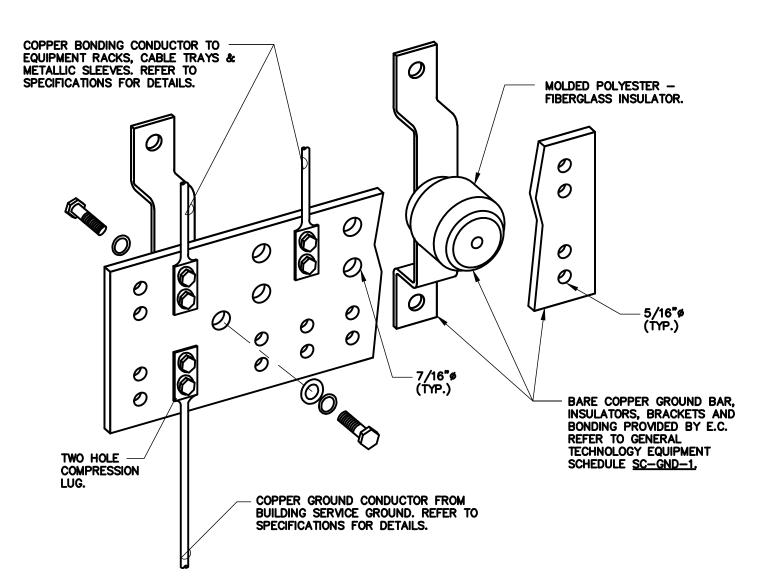
- 2. PROVIDE GROUNDING LUGS WITH <u>SC-CPW-1</u> AND BOND TO GROUND PER MANUFACTURER'S INSTRUCTIONS.
- 3. PROVIDE MINIMUM 6 AWG GREEN COPPER GROUND WIRE BETWEEN SECTIONS OF $\underline{\text{SC}-\text{CT}-1}$ TO MAINTAIN CONTINUOUS GROUND. ATTACH TO $\underline{\text{SC}-\text{CT}-1}$ WITH MANUFACTURER APPROVED GROUNDING CLAMPS OR LUGS.

ORIGINAL SIZE OF SHEET IS 30" X 42"



TRANSITIONS ON TO OR OFF OF HORIZONTAL LADDER RACK.

CABLE RUNWAY RADIUS DROP . PROVIDE LADDER RACK RADIUS DROPS FOR ALL AREAS WHERE CABLE



GROUND BAR DETAIL

- 1. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM SC-GND-1 FOR WIDTH REQUIREMENTS.
- 2. REFER TO 2/T505 FOR TELECOMMUNICATIONS BONDING RISER DIAGRAM.

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

0 4 8 16 Drawing Title **Project Title Project Number CONSULTANTS:** ARCHITECT/ENGINEERS: **INTENSIVE CARE UNIT** 589-330 Office of **TECHNOLOGY DETAILS AND SCHEDULES** STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS THE SEAL (S) AND SIGNATURE(S)
APPLY ONLY TO THE DOCUMENT TO Construction LIFE SAFETY/FIRE PROTECTION: COMMISSIONING: Building Number 303RD ENGINEERING GROUP, LLC CODE CONSULTANTS, INC. ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 #1 1630 DES PERES RD, SUITE 100 1935 ARSENAL STREET 2043 WOODLAND PARKWAY, SUITE 300 WHICH THEY ARE AFFIXED, AND WE and Facilities CHRISTNER SAINT LOUIS, MO 63131 ST. LOUIS, MO 63118 ST. LOUIS, MO 63146 CHESTERFIELD, MO 63017 EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DIRECTOR OF SPECIALTY CONTROL PRACTITIONER CHIEF ENGINEER CHIEF DIRECTOR DIRECTOR STAFF

ASSOCIATE DIRECTOR OF STAFF

ASSOCIATE DIRECTOR OF PATIENT SERVICES ASSOCIATE DIRECTOR **Drawing Number** Management MECHANICAL/ELECTRICAL: **ESTIMATING:** ACOUSTICAL ENGINEERS: **ENVIROMENTAL:** PLANS, SPECIFICATIONS, HARRY S. TRUMAN VAMC EVIRONMENTAL CONSULTANTS, LLC ESTIMATES, REPORTS, OR OTHER KJWW ENGINEERING CONSULTANTS - ST. LOUIS KWAME BUILDING GROUP ACOUSTICONTROL LLC 1204 WASHINGTON AVE. SUITE 200 #6 MEADOW HEIGHTS PROFESSIONAL PARK DR. #15 SUNNEN DRIVE, SUITE 104 DOCUMENTS OR INSTRUMENTS 1709 WASHINGTON AVENUE, LOFT 300 ST. LOUIS, MO 63141 RELATING TO OR INTENDED TO BE ST. LOUIS, MO 63103 ARCHITECTS | DESIGNERS | PLANNERS | LANDSCAPE ARCHITECTS T601 ST. LOUIS, MO 63103 COLLINSVILLE, IL Drawn USED FOR ANY PART OF PARTS OF Department of Veterans Affairs THE PROJECT. 168 N MERAMEC, SUITE 400 | ST. LOUIS, MISSOURI 63105 |MARWIT ||DAVLAR ||DAVROU| © COPYRIGHT 2012 CHRISTNER INC. Dwg. 295 of 296 TEL 314 725 2927 | FAX 314 725 2928 | CHRISTNERINC.COM Revisions

A	CCE	S	S				N.	T	R	O		S	30	7	-		D	ULE
DOOR #	PLAN REF																	SCHEDULE NOTES
		CARD READER - IN	CARD READER - OUT	KEYPAD CARD READER - IN	KEYPAD CARD READER - OUT	ELECTRIFIED DOOR LOCKING HARDWARE CONNECTION	REX - ELECTRIFIED DOOR HARDWARE CONNECTION	REX - MOTION SENSOR	REX - PUSH BUTTON	LATCH BOLT MONITOR	DOOR CONTACT SWITCH	REMOTE UNLOCK VIA INTERCOM SYSTEM	REMOTE UNLOCK VIA PUSH BUTTON	REMOTE UNLOCK VIA FIRE ALARM SYSTEM	AUTOMATIC LOCK / UNLOCK VIA SCHEDULE	INTEGRATION WITH POWER DOOR OPERATOR	DOOR TYPE - SINGLE / DOUBLE / ELEVATOR OTHER	
1-3	1/TS102	Х				Х	Х				Х			Х			S	
G200	1/TS101	Х				Х	Х				Х						D	
G201A	1/TS101	X				Х	Х				X						S	
G201B	1/TS101	X				Х	Х				X						S	
G201C	1/TS101	X				Х	Х				X						S	
G300	1/TS103	X				Х	Х				X			Х		Х	D	
G316	1/TS104	X				Х	Х				X						S	
G318	1/TS104	-		Х		Х	Х				X						S	
√ \$2 √	MS104						×	\sim			×	\succeq	\sim				→	$\sim\sim$
G346	1/TS103	X				Х	Х				X						S	2
G347	1/TS102	X	<u> </u>			X	X				X	_				_	S	2
~ €348 ~	1/13102	$\mathbb{L}^{\!$	\succeq	igcep	\sim	*	~	\sim	\sim		*						8	~~~
G365	1/TS104	X				Х	Х				Х			Х		Х	D	
G370	1/TS102	X				Х	Х				Х		Х	Х		Х	D	1
G375	1/TS103	Х				Х	Χ				Х	Х		Х		Х	D	

- 1. REFER TO 1/T602 FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.
- 2. EACH LEAF'S DOOR CONTACT SWITCH SHALL OPERATE INDEPENDENTLY. DO NOT SHUNT IN SERIES.
- 3. ELECTRIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ELECTRIC BOLT RETRACTION, PANIC/CRASH BARS AND/OR LOCKSETS WITH REQUEST TO EXIT SWITCH CONTACT OUTPUT, ETC. SHALL BE FURNISHED AND INSTALLED BY OTHERS.
- 4. 12-VOLT POWER FOR ELECTRIFIED DOOR LOCKING HARDWARE PROVIDED BY ACCESS CONTROL SYSTEM
- CONTROL PANELS AND POWER SUPPLIES.
- 5. POWER TRANSFER CABLE PATHWAY FITTINGS SHALL BE FURNISHED AND INSTALLED BY OTHERS. 6. COORDINATE CONNECTION TO ELECTRIC DOOR HARDWARE PROVIDED BY OTHERS WITH ON-SITE DOOR HARDWARE INSTALLATION CONTRACTOR.
- 7. COORDINATE TESTING OF ELECTRIC DOOR HARDWARE PROVIDED BY OTHERS WITH ON-SITE DOOR
- HARDWARE INSTALLATION CONTRACTOR.

1/2" EMT CONDUIT-

MINIMUM. (TYP)

. REMOTE UNLOCK VIA VIDEO INTERCOM MASTER STATION LOCATED AT UNIT SECRETARY ROOM G358. REFER TO 1/TS103 FOR LOCATION.

 \Box

DOOR FRAME ROUGH-IN DIAGRAM

(ALL SINGLE DOORS)

2. DOOR IS PART OF SCOPE OF WORK THAT WOULD BE DELETED FROM THE PROJECT UNDER DEDUCT ALTERNATE 2 AND DEDUCT ALTERNATE 3.

		C	CLC	SEI	D CII	RCUI	T (CCTV	') IN	IDI\	/IDUA	L C	AMERA	A TYP	E SCHEDU	LE
LEGEND																
CAMERA	A TYPE:				OPTICS:				ADDITION	IAL FEATU	IRES:			ENCLOSURE FI	NISH:_	
CL	COLOR				VF	VARIFOCAL			UT		TWISTED PAIR TE	RMINATION		BK	BLACK	
МС	MONOCHRO	OME		AI AUTO IRIS					FO FIBER TX/RX TERMINATION WH						WHITE	
DN	DAY/NIGHT			AZ AUTO ZOOM					RM		REMOTE MONITO	R/SETUP KIT	-	GR	GRAY	
l IR	INFRARED								DZ		DIGITAL ZOOM (SI	EE NOTES)		GD	GOLD	
PTZ	PAN/TILT/ZO	OOM			ENCLOSURE	MOUNT:			WI		WIRELESS (SEE N	IOTES)		ST	STAINLESS STEEL (316)	
ENCLOS	URE FEATUR	ES:			CL	CEILING			IP		TCP/IP (SEE NOTE	ES)		AL	ALUMINUM	
l IN	INDOOR (NE	MA 1)			WL	WALL			LP		LIGHTNING PROT	ECTION (SEE	NOTES)	CH	CHROME	
OD	OUTDOOR (NEMA 3R)			PL	POLE								CU	CUSTOM (SEE NOTES)	
EN	ENVIRONME	NTAL (NEM	A 4X)		PR	PARAPET RO	OF		ENCLOSU	JRE TYPE:						
VN	VANDAL PR	OOF (IEC 68	3-2-27)		PW	PARAPET WA	LL		RD		RECESSED DOME					
MS	PRISON GR	ADE			CR BUILDING CORNER				SD		SURFACE MOUNT	ED DOME				
EA	ENVIRONME	NTAL AIR R	ATED		CU	CUSTOM (SE	E NOTES)		PD PENDANT MOUNTED DOME							
HT	INTEGRAL H	IEATER							LN		LINEAR CAMERA	HOUSING				
ES	ENVIRONME	ENTAL SENS	ORS		SENSITIVITY	<u>′:</u>			EX		EXPOSED CAMER	A.				
WB	ENCLOSUR	E WIPER BL	ADE		DS	DYNAMIC "LO	W LIGHT"									
BL	INTEGRAL E	LOWER/FAN	٧		WW	WIDE DYNAM	IC RANGE	Ē								
SS	SUN SHIELD)			SW	SUPER WIDE	DYNAMIC	RANGE								
PS	PRESSURIZ	ED (NEMA 6	P)													
CAM TYPE	CAMERA	SENSOR	RES	OPTICS	SENS	SHUTTER SPEED		ENCLOS	SURE		VIDEO STOR	RAGE CALCU	LATION BASIS	ADDITIONAL	NOTES	BASIS OF DESIGN
CODE	TYPE	SIZE	(TVL) (MIN)	OFFICS	(LUX) (MIN)	(MIN)	TYPE	FEATURES	FINISH	MOUNT	RESOLUTION	FRAME RATE	% MOTION	FEATURES	NOTES	DAGIO OF DEGIGIN
CAM 1	FIXED,	1/3"	540	2.8 -	0.6 LUX	1/60-	RD	IN	GR	CL	4 CIF	15 FPS	100			PELCO IS20-CHV10F

CAM 2 | FIXED,

DOOR HARDWARE POWER SUPPLIES

Ð

1. DOME ENCLOSURES SHALL BE SMOKED FINISH UNLESS OTHERWISE NOTED. 2. IF ENCLOSURE TYPE IS "EX" THEN ENCLOSURE FINISH AND MOUNT APPLIES TO EXPOSED CAMERA.

(COLOR)

0.6 LUX

(COLOR)

-1/2" EMT CONDUIT

1/10,000

1/10,000

10 MM,

10 MM, VF, AI

VF. Al

PELCO IS20-CHV10F NO SUBSTITUTIONS PROVIDE COMPLETE WITH SAME PELCO IS20-CHV10S NO SUBSTITUTIONS

- 3/4" EMT CONDUIT MINIMUM JUNCTION BOX STRUCTURE ABOVE FLEXIBLE METALLIC CONDUIT -- RECESSED MOUNT BRACKET DOME CAMERA BODY-- ACOUSTICAL CEILING TILE OR GYPSUM WALL BOARD (REFER TO ARCHITECTURAL PLANS) RECESSED MOUNT TRIM RING

MANUFACTURER'S PENDANT

DOOR ROUGH-IN AND WIRING DIAGRAM NO SCALE

1. COORDINATE EXACT WRING REQUIREMENTS WITH SELECTED MANUFACTURER OF ACCESS CONTROL SYSTEM EQUIPMENT AND DOOR HARDWARE.

D

DOOR FRAME ROUGH-IN DIAGRAM

(ALL DOUBLE DOORS WITH OR WITHOUT CENTER MULLION)

- 2. DETAILS ABOVE MAY NOT BE REPRESENTATIVE OF SPECIFIC DOOR SWING DIRECTION. MIRROR DETAIL AS REQUIRED.
- 3. REFER TO ARCHITECTURAL DOOR HARDWARE GROUPS AND SPECIFICATION FOR COMPLETE INFORMATION. 4. ALL DOOR POSITION SWITCHES SHALL BE RECESSED, CONCEALED TYPE UNLESS OTHERWISE NOTED.
- 5. ALL CABLING SHALL BE INSTALLED IN CONDUIT.
- 6. ELECTRIC HINGE MONITORS ARE NOT ACCEPTABLE REPLACEMENTS FOR THE CONCEALED DOOR POSITION SWITCHES.
- 7. REFER TO FLOOR PLANS FOR CARD READER LOCATIONS.

CONTROLLER(S) IN NEAREST

ELECOMMUNÌCATIONS ROOM

1/2" EMT CONDUIT-MINIMUM. (TYP)

- 8. ALL POWER (INCLUDING +120 VAC) REQUIRED FOR SYSTEM OPERATION SHALL BE PROVIDED BY THIS CONTRACTOR.
- 9. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL ACCESS CONTROL SECURITY SYSTEM ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP

KEYNOTES: 1 PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON DETAIL. ROUGH—IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. FLEXIBLE CONDUIT OF ANY TYPE IS NOT ACCEPTABLE. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION

MOUNT TWO (2) 4—SQUARE OR LARGER JUNCTION BOXES WITH BLANK COVER PLATES ABOVE NEAREST ACCESSIBLE CEILING AS CLOSE TO THE CONTROLLED DOORWAY AS IS PRACTICAL. INSTALLING CONTRACTOR TO SIZE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES.

INTERIOR RECESSED CEILING CAMERA MOUNTING DETAIL

- . COORDINATE EXACT LOCATION ON SITE WITH WORK BY OTHER TRADES TO ENSURE DESIRED VIEWING AREA AND SERVICE ACCESS AFTER COMPLETION OF PROJECT AND TO MINIMIZE ANY POSSIBLE DAMAGE TO INSTALLED CAMERA OR ASSOCIATED CABLING.
- 2. CONDUIT RUNS SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT. ALL CONDUITS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
- 3. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR CAMERA ROUGH—INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.
- 4. CAMERA MOUNTING ACCESSORY SHALL BE FROM THE SAME MANUFACTURER OF THE CAMERA AND APPROVED BY THE MANUFACTURER FOR USE WITH THE SPECIFIC MODEL NUMBER OF CAMERA INSTALLED. CONTRACTOR SHALL INSTALL CAMERA MOUNTING ACCESSORY AND CAMERA PER MANUFACTURER'S
- 5. MOUNT ENCLOSURE FLUSH IN HARD CEILINGS. MOUNT ENCLOSURE IN ACOUSTICAL CEILING TILE WITH APPROPRIATE BRIDGE BRACE IN ACCESSIBLE CEILINGS. INSTALL SAFETY WIRES OR CABLES FROM ENCLOSURE TO NEAREST STRUCTURE WHERE INSTALLED IN ACOUSTICAL CEILINGS.
- 6. LOCATE FLEXIBLE METALLIC CONDUIT CONNECTION TO CAMERA ENCLOSURE SUCH THAT THE ASSOCIATED CABLING CAN BE FED IN TO ENCLOSURE WITHOUT INTERFERING WITH CAMERA OPERATION.

CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE PLAN REF CAM TYPE REFERENCE OF VIEW NOTES HEIGHT **FUNCTIONALITY** DETAILS FLUSH AT FINISHED CEILING 1/TS102 2/T602 1/TS102 2/T602 1/TS102 FLUSH AT FINISHED CEILING 1/TS102 2/T602 FLUSH AT FINISHED CEILING 1/TS102 2/T602 FLUSH AT FINISHED CEILING 1/TS103 2/T602 1/TS103 FLUSH AT FINISHED CEILING 2/T602 1/TS103 2/T602 1/TS104 FLUSH AT FINISHED CEILING 2/T602 CAM1 FLUSH AT FINISHED CEILING 1/TS104 2/T602 1/T401

1. CAMERAS LISTED ABOVE WITHOUT ROUGH-IN REQUIREMENTS DOES NOT MEAN THAT NO ROUGH-IN IS REQUIRED. IF NONE IS NOTED FOLLOW MANUFACTURER'S RECOMMENDED REQUIREMENTS

4-SQUARE JUNCTION BOX

WALL STRUCTURE (REFER ARCHITECTURAL DRAWINGS)

2. REFER TO 2/T503 FOR CABLING REQUIREMENTS.

INTERIOR SURFACE WALL CAMERA MOUNTING DETAIL

CAMERA MANUFACTURER'S GOOSENECK-STYLE

WALL-MOUNTING ACCESSORY

DOME CAMERA

- 1. COORDINATE EXACT LOCATION OF CAMERA ON SITE WITH WORK BY OTHER TRADES TO ENSURE DESIRED VIEWING AREA AND SERVICE ACCESS AFTER COMPLETION OF PROJECT AND TO MINIMIZE ANY POSSIBLE DAMAGE TO INSTALLED CAMERA OR ASSOCIATED CABLING.
- 2. CONDUIT RUNS SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT. ALL CONDUITS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
- 3. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR CAMERA ROUGH—INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.
- 4. CAMERA MOUNTING ACCESSORY SHALL BE FROM THE SAME MANUFACTURER OF THE CAMERA AND APPROVED BY THE MANUFACTURER FOR USE WITH THE SPECIFIC MODEL NUMBER OF CAMERA INSTALLED. CONTRACTOR SHALL INSTALL CAMERA MOUNTING ACCESSORY AND CAMERA PER MANUFACTURER'S INSTRUCTIONS.
- 5. REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE FOR MOUNTING HEIGHT OF CAMERA.

FULLY SPRINKLERED CONSTRUCTION DOCUMENTS

	CONSULTANTS:	CONSULTANTS:			ARCHITECT/ENGINEERS:	Drawing Title TECHNOLOGY DETAILS AND SCHEDULES	Project Title INTENSIVE CARE UNIT	Project Number 589-330	Office of
	STRUCTURAL ENGINEER: KPFF CONSULTING ENGINEERS - ST. LOUIS 1630 DES PERES RD, SUITE 100 SAINT LOUIS, MO 63131	PLUMBING: 303RD ENGINEERING GROUP, LLC 1935 ARSENAL STREET ST. LOUIS, MO 63118	LIFE SAFETY/FIRE PROTECTION: CODE CONSULTANTS, INC. 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146	COMMISSIONING: ZODIAC INTERNATIONAL 16100 CHESTERFIELD PARKWAY, SUITE 365 CHESTERFIELD, MO 63017	THE SEAL (S) AND SIGNATURE (S) APPLY ONLY TO THE DOCUMENT WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY	то		Building Number #1	Construction and Facilities
	MECHANICAL/ELECTRICAL: KJWW ENGINEERING CONSULTANTS - ST. LOUIS #15 SUNNEN DRIVE, SUITE 104	ESTIMATING: KWAME BUILDING GROUP 1204 WASHINGTON AVE. SUITE 200	ACOUSTICAL ENGINEERS: ACOUSTICONTROL LLC 1709 WASHINGTON AVENUE, LOFT 300	ENVIROMENTAL: EVIRONMENTAL CONSULTANTS, LLC #6 MEADOW HEIGHTS PROFESSIONAL PARK DR.	RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHE DOCUMENTS OR INSTRUMENTS	DIRECTOR OF SPECIALTY CARE INFECTION CONTROL PRACTITIONER CHIEF ENGINEER DIRECTOR DIRECTOR OF PATIENT SERVICES CHIEF OF STAFF DIRECTOR	Location HARRY S. TRUMAN VAMC	Drawing Number	Management
1. 1/14/15 Amendment #4	ST. LOUIS, MO 63141	ST. LOUIS, MO 63103	ST. LOUIS, MO 63103	COLLINSVILLE, IL 62234	ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS RELATING TO OR INTENDED TO E USED FOR ANY PART OF PARTS (THE PROJECT. © COPYRIGHT 2012 CHRISTNER I	DF	Date Checked Drawn Ap 08/22/2014 MARWIT DAVLAR DA	T602 AVROU Dwg. 296 of 296	Department of Veterans Affairs